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Farm *and* Garden Supplies

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1934

Catalogue 47

Gaillardia—INDIAN CHIEF

A superb new annual variety of the Picta type; pointed foliage, of easy culture, running practically 100 per cent true. Plants grow about 18 inches high, producing large, single flowers of bronze-red color, with mahogany-brown centers, continuously blooming from early summer until late fall. Fine for beds, borders, and cutting.

Packet, 15 cts.

GRIFFITH & TURNER CO.
205-215 N. Paca St. [Branch: 30 S. Calvert St.] BALTIMORE, MD.

The Lawn

GRIFFITH & TURNER CO.'S IMPERIAL TURF MIXTURE. This superb quality of grass seed is correctly proportioned to produce that Old English effect, peculiarly adapted for large estates and very desirable for the smaller suburban home-lawn. **Lb. 40 cts., 5 lbs. $1.75, 20 lbs. $7.**

GRIFFITH & TURNER CO.'S EVERGREEN LAWN GRASS. This is a first-class mixture of our own preparation, and containing nothing but choice seeds—just the thing for tennis-, croquet- and ball-grounds, remaining green and fresh during the hot summer months. Widely known and extensively used on the finest private and public grounds with the most satisfactory results. Nothing adds to the attractiveness of suburban homes more than a well-kept, close-cut, velvety lawn; hence the importance of securing the best seeds. It is adapted to the small grass plots of city homes. **Lb. 30 cts., 3 lbs. 85 cts., 5 lbs. $1.25, Bus. (20 lbs.) $5, by Freight or Express not prepaid.**

SHADY NOOK GRASS. On nearly all lawns there are bare spots under the shade trees. With this mixture they can be easily corrected. Ground that has been densely shaded by trees is frequently "sour" and is apt to be covered with moss. In such cases apply slaked lime at the rate of one bushel per thousand square feet, but the moss should first be removed with a rake. **Lb. 35 cts., 5 lbs. $1.50, Bus. (20 lbs.) $6.**

GRIFFITH & TURNER CO.'S GOLF LINKS MIXTURE. There being a growing demand for a grass mixture suitable for golf- and cricket-grounds, we have made a study of the grasses best adapted to these purposes, and have made a mixture in proper proportions to give desired results. It is highly essential that golf- and cricket-grounds should be mowed closer than ordinary lawns. **Bus. (14 lbs.) $5.50.**

TERRACE SOD MIXTURE. A special mixture of grasses best suited for sowing on terraces, railroad embankments, and side hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out, and that will withstand drought and exposure, thriving on shallow soils. **Lb. 30 cts., pk. $1, Bus. (14 lbs.) $3.50.**

WHITE DUTCH CLOVER. Thrives most everywhere. Best to sow with lawn grass and valuable to sow with blue grass for permanent pastures. **¼lb. 15 cts., ½lb. 20 cts., lb. 40 cts., by mail 50 cts., 10 lbs., by Express, not prepaid, $3.50.**

PARK LAWN GRASS. A very good mixture of lawn grass, made of the purest grasses, but not as good as our Evergreen Lawn Seed. Suitable where a fine lawn is not required. **Lb. 25 cts., pk. (5 lbs.) $1, Bus. (20 lbs.) $4.**

PREPARATION AND CARE OF LAWNS. The ground should be thoroughly drained and well enriched before sowing. Work the soil until well pulverized, and have the surface as smooth as possible, so that the grass may present an even appearance. After sowing, cover seed lightly and follow with roller. The best results are obtained by using plenty of seed, 4 bushels to the acre being about the right quantity. One quart is sufficient for 300 square feet. Let the grass obtain a good start before cutting, and then it should be trimmed with a lawn mower about every 10 days. Old lawns may be improved and renewed by the application of fertilizers and seeding about half the quantity of seed required for new lawns. This should be done whenever they show any thin places.

On all grass seeds, if ordered by parcel post, add 8 cts. per lb. extra

Griffith & Turner Co., Baltimore, M

1934 ANNUAL CATALOGUE 1934

Quality Goods **No. 47** **Best Prices**

It gives us great pleasure to present our 1934 Catalog. For over seventy-one years we have been keeping step with the changing methods of doing business.

Your loyalty to us has made this possible, and we want to do everything to show our appreciation of the confidence you have placed in us.

It has always been a pleasure to serve you, and we pledge to you our utmost endeavor, that this confidence may long continue.

If you cannot secure the within goods from your local dealer, kindly write to us direct.

GRIFFITH & TURNER COMPANY.

OUR SEEDS are the BEST that can be obtained anywhere, because we are as careful in our selection as it is possible for anyone to be, and are constantly on the lookout for the best of everything, but will not put on the market anything until it has been thoroughly tried and proved.

No matter what others may ask for their seeds, better quality cannot be obtained anywhere, as our constantly and rapidly increasing trade does and will testify.

Our Seeds are ALL TESTED thoroughly before being placed on the market.

If for any reason you change your postoffice address, please advise us, giving your old address as well as your new one, stating which is the old and new one.

By writing out your order on the Order Sheet sent with each Catalogue you will greatly facilitate our work. Extra Order Sheets sent on application. Be sure to sign your name in full, giving postoffice and shipping point. If you have rural delivery, give name and number of route. If you want goods shipped by boat or railroad, state which you prefer, and what line to send by.

PARCEL POST RATES

Weight, in pounds	Local	1st, up to 50 miles	2d, 50 to 150 miles	3d, 150 to 300 miles
		ZONES		
1	$0.07	$0.08	$0.08	$0.09
2	.08	.10	.10	.11
3	.08	.11	.11	.13
4	.09	.12	.12	.15
5	.09	.13	.13	.17
6	.10	.14	.14	.19
7	.10	.15	.15	.21
8	.11	.16	.16	.23
9	.11	.17	.17	.25
10	.12	.18	.18	.27
11	.12	.19	.19	.29
12	.13	.21	.21	.31
13	.13	.22	.22	.33
14	.14	.23	.23	.35
15	.14	.24	.24	.37
16	.15	.25	.25	.39
17	.15	.26	.26	.41
18	.16	.27	.27	.43
19	.16	.28	.28	.45
20	.17	.29	.29	.47
21	.17	.30	.30	.49
22	.18	.32	.32	.51
23	.18	.33	.33	.53
24	.19	.34	.34	.55
25	.19	.35	.35	.57

Parcels weighing less than 10 pounds measuring over 84 inches but not more than 100 inches in length and girth combined are subject to a minimum charge equal to that for a 10-pound parcel for the zone to which addressed.

TO COUNTRY MERCHANTS

WE PUT UP VEGETABLE SEEDS in papers for the Country Trade in quantities to suit purchasers.

Our seeds are select and tested, and give satisfaction wherever used.

Beans, Peas, Corn, Potatoes, Onion Sets, etc., in bulk, at lowest wholesale rates.

Write for special quotations in quantities.

Should you have placed your order for small papers for this year, we will be pleased to fill any shortage you may have, and solicit your patronage for another season.

Prospective Customers who are not rated in the Commercial Agencies will save time in having their goods shipped by accompanying their Orders either with the Cash or satisfactory reference. Baltimore references preferred.

NOTICE—We make a specialty of quoting on complete outfits. SEND FOR PRICES.

Filling Orders.—Every order is filled and forwarded as promptly as possible, but if not duly received please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address.

PACKING AND SHIPPING.—We make no charge for boxes or packing of retail orders and deliver all goods to any railroad or steamboat free of charge. We charge for cotton bags, 2 bushel 30c each.

HOW TO REMIT.—Remittances should be made by draft, Express Money Order, P. O. Money Order or Registered Letter.

We deliver by **PARCEL POST FREE** to any Postoffice in the United States all cash orders for Flower and Garden Seeds, up to ¼ lb.

No seed delivered free unless order is accompanied with the cash. For postage on Peas, Beans, Corn, Field Seeds in large quantities and All Merchandise, consult table below.

ON EVERY ORDER be sure to **SIGN YOUR NAME** and give your address **PLAINLY**, as we frequently receive orders lacking either or both; also give full shipping instructions. State if by freight or express and give route. This saves delay.

PRICES TO MARKET GARDENERS.—Market gardeners and all purchasers of Seeds in large quantities should submit us a list of their wants and we will name them special prices.

WEIGHT OF AGRICULTURAL SEED PER BUSHEL AND QUANTITY USUALLY SOWN PER ACRE

Weight per Bushel	Variety	Time to sow	Quantity per Acre
48 lbs.	Barley,	Aug. to Nov.	96 lbs.
48 "	Buckwheat,	June to Aug. 15	1 bu.
60 "	Clover,	Alfalfa, March, April and Aug. to Oct. 15	20 to 25 lbs.
60 "	Clover,	Alsike, Feb., March and Aug.	8 lbs.
60 "	Clover,	Crimson, July to Sept.	15 lbs.
60 "	Clover,	Sweet, March and April, Aug. to Sept.	15 to 20 lbs.
60 "	Clover,	Red, Feb. and March	10 to 12 lbs.
60 "	Clover,	White, Aug. and Sept., March and April (alone)	6 lbs.
56 "	Corn,	for soiling, May	1 to 2 bus.
20 "	Evergreen Lawn Grass,	March and April, Aug. and Sept.	4 bus.
56 "	Field Corn	(in hills), May	4 to 6 qts.
50 "	German Millet,	May to Aug. 1st	50 to 75 lbs.
14 "	Kentucky Blue,	April and May, Aug. and Sept.	42 lbs.
14 "	Orchard Grass,	April and May, Aug. and Sept.	42 lbs.
32 "	Oats,	Spring, March and April	75 lbs.
32 "	Oats,	Winter, March, Aug., Sept., Oct.	50 to 75 lbs.
14 "	Red Top,	unhulled, April, May, Aug. and Sept.	42 lbs.
32 "	Red Top,	Fancy, April, May, Aug. and Sept.	12 lbs.
60 "	Rape,	Feb. to Aug.	4 to 6 lbs.
56 "	Rye,	Aug. to Nov.	60 to 80 lbs.
50 "	Sorghum	(for Fodder), May and June	50 lbs.
45 "	Timothy,	alone, April, May, Aug., Sept.	20 lbs.
.... "	Timothy,	with other grasses	12 lbs.
	(Together for an acre: Red Clover, 6 lbs.; Timothy, 12 lbs.)		
60 "	Wheat,	Sept. to Nov. 15	100 to 120 lbs.
60 "	Vetch,	Winter, Aug. to Nov. (broadcast)	30 lbs.

INSTRUCTIONS FOR PLANTING

Sow seed indoors for early plants of Cabbage, Cauliflower, Egg Plant, Pepper, Lettuce and Tomato, February 20th to March 10th.

Set early plants outside, of Cabbage, Lettuce and Cauliflower, April 1st to April 30th.

Plant in the outside land, where they are to remain, Potatoes, Peas and Onion Sets, March 17th to May 1st.

Sow on the outside, where they are to remain, Asparagus Seed, Asparagus Roots, Beet, Onion Seed, Parsnip, Parsley, Lettuce, Kale, Turnip, Radish, Spinach, Carrot, Salsify, also Celery seed for plants, April 1st to May 15th.

Set outside plants of Tomato, Pepper, Egg Plant, May 20th to June 20th.

Plant outside, Sugar Corn, Muskmelon, Cucumber, Squash and Pumpkin, May 15th to July 1st.

Watermelon, May 20th to June 20th.

Plant outside all kinds of String Beans and Stringless Beans, May 15th to August 15th.

Lima Beans, May 15th to June 20th.

For late crops of Kale, Turnip and Spinach, sow August 10th to Sept. 10th.

For plants for late crops of Cabbage, Borecole and Brussels Sprouts, sow seed May 15th to May 25th.

"We give no warranty, expressed or implied, as to description, purity, productiveness or any other matter of any seeds, or bulbs, we sell, and we will not be in any way responsible for them."

FLOWER SEEDS FOR 1934

In submitting this list of flower seeds to our customers, we are offering the very best varieties that can be procured, and endeavor to give a short accurate description of each strain—its use, its color, height, blooming period, etc. We also offer, for the convenience of our customers, general directions for cultivation.

Hardy flower seeds should be sown in the open, after danger of frost is past, in well-worked and moist soil. Seeds of medium size, put at depth of one-quarter to one-half inch. Very fine seeds, press into the soil and cover slightly with a little sand or sphagnum moss. If seeds are not deep, water frequently. When up, tranplant from two to twelve inches apart, according to variety of plants. Do not leave too thick, as the plants will be weak and spindling. Keep weeds out of the flower beds.

A—Annuals, live and bloom only one season.

B—Biennials, live two seasons; sometimes blooming only the second season.

P—Perennials, tend to live from year to year. Seeds of perennials should be sown in late summer and cover well during winter.

HHP—Half Hardy Perennials. Fine seeds can be sown indoors or cold frame, and transplanted to open, latter part of April.

NEWER VARIETIES OF FLOWER SEEDS FOR 1934

(SEE GENERAL LIST ALSO)

AMARANTHUS—Molten Fire (Summer Poinsettia)—Most beautiful of all Amaranthus. Leaves, dark bronze; center, poinsettia-red. Easily grown. **Packet 10c, ⅛ Ounce 35c.**

ASTER—Peerless Yellow—Best yellow Aster, branching type. Grows about 2 feet. **Packet 15c.**

BRACHYCOME

BRACHYCOME—Swan River Daisy—Free-flowering annuals, blooming profusely throughout the summer. Star-shaped flowers with bright centers and lacy foliage. For rockeries and small beds. Height 1 foot. **Packet 10c; ¼ Ounce 40c.**

CANTERBURY BELL—A new annual which blooms first year from seed (in less than six months). Plants 2 to 2½ feet high, bearing 6 to 8 flower spikes. Fine mixed varieties. **Packet 15 cents.**

CALENDULA—Golden Radio—Petals large and quilled, giving the blooms a round cactus shape; different from other Calendulas. Color rich growing yellow. **Packet 15c, ⅓ Oz. 30c.**

CALENDULA—Chrysantha or Sunshine—A new Calendula, bearing large flowers of exquisite shade of clear buttercup-yellow, with long loosely arranged petals, resembling Chrysanthemums. The long stiff stems make a fine variety for cutting and the bright colors add much to the garden for a fine display. **Packet 25c.**

CENTAUREA (Suaveolens) Yellow Sweet Sultan or Grecian Cornflower—Showy annual, with large sweet-scented flowers. Splendid for cutting. Height 2 to 2½ feet. **Packet 10c. ¼ Ounce 30c.**

COSMOS (Hybrida) KLONDYKE—Large flowering with magnificent bright orange flowers, sometimes measuring 2 to 3 inches. **Packet 15c.**

ESCHSCHOLTZIA. (California Poppy) AUTUMN GLORY—Hardy annual; large double flowers, having outer petals of brilliant orange crimson, inside of petals coppery-orange. **Packet 10c; ¼ Ounce 25c.**

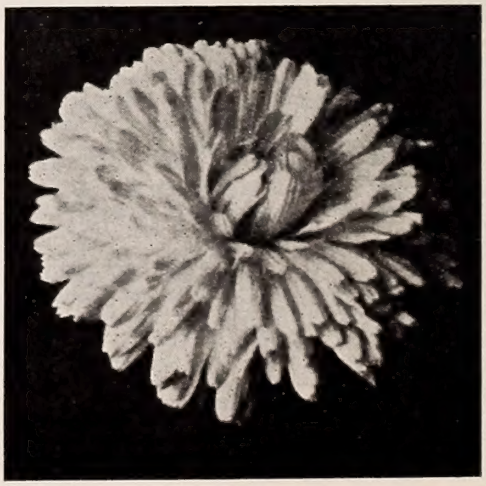
GAILLARDIA. (Blanket Flower) INDIAN CHIEF—A distinctive annual variety, of the Picta or pointed leaf type, of easy culture. Plants grow about 18 inches high, producing blooms of large single metallic-bronzy-red color, with mahogany-brown centers, and pointed leaves, from early summer until late fall. Fine for beds, borders and cutting, and do not need transplanting. **Packet 15c.**

GAILLARDIA. Grandiflora. BURGUNDY—Darkest and most brilliant of perennial Gaillardias. Coppery self color. Similar to the annual Indian Chief. If started indoors, flowers may be produced first year from seed and bloom through the summer profusely. **Packet 25c.**

PETUNIAS. Rose of Heaven—Delicate rose-pink, with white throat. **Packet 15c; ⅛ Ounce 50c.**

SALVIA. Dichroa—An annual of extra large variety, producing spikes of deep blue flowers. Height, 4 to 5 feet. **Packet 10c.**

ZINNIAS. California Giant or Mammoth—These plants grow taller than the Dahlia-flowered, with long stems and very large flat, double flowers. Excellent for cut flowers. Fine mixed. **Packet 10c; ¼ Ounce 35c; Ounce $1.25.**



CALENDULA SUNSHINE

ACHILLEA (Yarrow) (P)

1. **PTARMICA, "The Pearl"**—A hardy perennial, grows about 2 feet high and bears snowy white flowers in clusters; strong wiry stems; flowers all summer. Fine for cutting. **Packet 15c.**

AGERATUM (Floss Flower) (A)

AGERATUM

A very satisfactory bedding hardy annual, being literally a mass of bloom from early summer until frost. Easily raised from seed which is usually started in hot beds or boxes and transplanted in May, 4 to 6 inches apart.

2. **AGERATUM MEXICANUS** — Tall; mixed varieties. Height 2 ft. **Packet 10c, ¼ Ounce 25c.**

3. **DWARF COMPACTUM BLUE BALL**—Dwarf plants, with tiny ball-shaped moulds of flowers, which are large and compact and of a deep rich blue. Especially suited for borders and rock gardens. Height 6 inches. **Packet 10c, ⅛ Ounce 25c.**

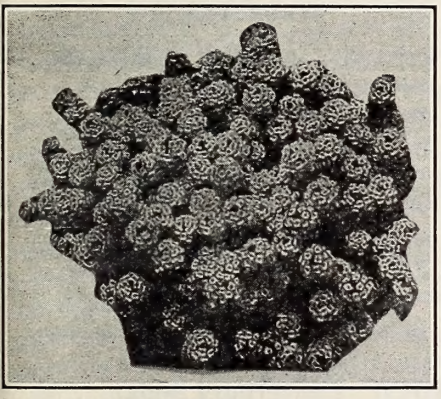
AGROSTEMMA (Mullein Pink) (P)

4. **CORONARIA MIXED**—Hardy perennial of easy culture. Stout, erect growing plants with unusual silvery foliage. Bright flowers in an assortment of colors. In bloom in June and July. Height 1½ to 2 feet. **Packet 10c.**

ALYSSUM (A & P)

A very popular garden flower, blooming profusely all summer; invaluable for beds, edging, rock gardens, baskets, etc.

5. **LITTLE GEM OR CARPET OF SNOW (A)**—Dwarf, compact plants, 4 inches high, completely covered with small white flowers. Annual. **Packet 10c, ¼ Ounce 25c.**



ALYSSUM

6. **LILAC QUEEN (A)** — A pretty shade of lavender-lilac; especially attractive in the fall. Dwarf compact habit; height 6 inches. **Packet 10c, ¼ Ounce 25c.**

7. **SAXATILE COMPACTUM (P)** — Hardy perennial plant. Broad masses of bright yellow flowers in April and May. Excellent for rockery and front of borders. Height 1 foot. **Packet 10c, ¼ Ounce 40c.**

8. **SWEET (MARITIMUM) (A)**—A charming summer bedding annual of trailing habit; flowers white and very fragrant. Height 6 to 9 inches. **Packet 10c, ½ Ounce 20c.**

AMARANTHUS (A)

Very pretty annuals, with brilliantly colored foliage. Height about 3 feet, and in bloom during July and August. Prefer sunny locations.

9. **CAUDATUS ("Love-Lies-Bleeding")**—A very attractive plant; blood-red; long pendant flower streamers. **Packet 10c, ¼ Ounce 25c.**

10. **MOLTEN FIRE (Summer Poinsettia)**—Most beautiful of all Amaranthus; leaves dark bronze, center Poinsettia-red; very easily grown. **Packet 10c, ⅛ Ounce 35c.**

11. **TRI-COLOR SPLENDENS ("Joseph's Coat")**—Brilliant scarlet and yellow leaves. Height 2 feet. **Packet 10c, ¼ Ounce 25c.**

AMPELOPSIS (Boston or Japanese Ivy) (P)

12. **VEITCHI**—Hardy perennial climber; olive-green leaves, turning to scarlet in the autumn. Especially recommended as a climber for covering brick walls, etc. **Packet 10c.**

ANCHUSA (Bugloss) (P)

14. **ITALICA, Dropmore Variety**—Hardy perennial, producing drooping sprays of gentian blue flowers. Very showy; tall-growing, about 4 feet. Blooms in June and July. Fine for cutting. **Packet 10c, ¼ Ounce 25c.**

ANTIRRHINUM (Snapdragon) (A)

Snapdragons are a very popular group of flowers for the decoration of beds and borders; also one of the choicest cut flowers. They thrive in any good soil, and if sown first week in May will bloom in July, remaining in bloom until frost. Hardy annuals.

MAXIMUM GRANDIFLORUM VARIETIES

(Height 2 feet or more)

15. **COPPER KING**—Velvety bronzy-copper.
16. **CANARY BIRD**—Canary yellow, golden yellow lip.
17. **NYMPH**—Rose-lilac, with white tube.
18. **PURE WHITE.**
19. **ROSE PEARL**—Bright soft rose; white lip and throat, with lip slightly tipped yellow.
20. **RUBY**—Rich velvety, ruby-red.
21. **RUBY ROSE**—Deep salmon-rose.
22. **THE ROSE**—Deep rose-pink.
23. **VERMILLION SCARLET.**

ABOVE VARIETIES—Packet 10c each, ⅛ Ounce 35c.

TALL LARGE FLOWERED (Majus Grandiflorum)

24. **ROSE KING**—Deep rose. **Packet 10c, ⅛ Ounce 35c.**

25. **MAJUS MIXED**—This mixture includes the very best tall flowering varieties properly blended to make a particularly fine display in the garden. **Packet 10c, ⅛ Ounce 25c.**

DWARF VARIETIES

Dwarf and compact, large flowering. Much appreciated for small borders and rockeries. Height 6 inches.

26. **DELILA**—Rosy-lilac and white. **Packet 10c, ⅛ Ounce 35c.**

27. **TOM THUMB VARIETIES MIXED.** Many well blended colors. **Packet 10c, ⅛ Oounce. 25c.**

AQUILEGIA (Columbine) (P)

Remarkably graceful and beautiful perennials. Ideal plants for partially shady borders. Seed may be sown in the ground early in the spring, or should be planted in August and September for the next spring and early summer blooming.

28. **COERULEA (Rocky Mountain Columbine)**—One of the finest of the family, and one of the most beautiful of our native flowers. Plants are dwarf, about 18 inches high, with superb long-spurred flowers of violet-blue and white. April to July. **Packet 10c, ⅛ Ounce 35c.**

29. **LONG-SPURRED**—A very beautiful and much admired Columbine. Strong, thrifty, with flowers of largest size. In bloom during May and June. **Packet 10c, ⅛ Ounce 35c.**

IMPROVED VARIETIES MIXED

30. **DOUBLE FLOWERING MIXED**—A fine assortment of double flowers. **Packet 10c, ⅛ Ounce 30c.**

31. **SINGLE FLOWERING MIXED**—A splendid mixture in the single flowering varieties. **Packet 10c, ⅛ Ounce 30c.**

ARABIS (Rock Cress) (P)

32. **ALPINA**—An excellent early spring flowering perennial; specially recommended for edging and rockery; grayish foliage and masses of small pure white blossoms; 6 to 9 inches high. Blooms in April and May. Thrives best in dry soil and sunny locations. **Packet 10c, ¼ Ounce 30c.**

ARCTOTIS (African Daisy) (A)

33. **GRANDIS**—Very popular and beautiful annual of the branching habit. The daisy-like flowers, which are borne on long stems, are large and showy, being white on the upper surface, the reverse of the petals light lilac-blue. Specially valuable as a cut flower. In bloom all summer; height 2 to 3 feet. **Packet 10c, ¼ Ounce 25c.**

ASTERS (A)

We can offer no flower combining more beauty with grace and usefulness than does the Aster. From early July until frost it is unequalled by any flower in the garden. For early flowers sow seed in the house, hot bed, or cold frame during March and April. If sown outdoors, sow after the danger of frost. Annual.

34. **GIANT CALIFORNIA SUNSHINE**—Plants of this new variety grow three feet high, and bear blossoms on long, stiff stems; splendid for cutting. Flowers large, 4 to 5 inches in diameter. Colors remarkably beautiful. A two-tone effect is obtained through the contrasting colors of the disc-like center and the outer petals varying in shades of Pink, Rose, Blue, and Lavender. In bloom all summer. In mixture only. **Packet 25c, ⅛ Ounce 45c.**

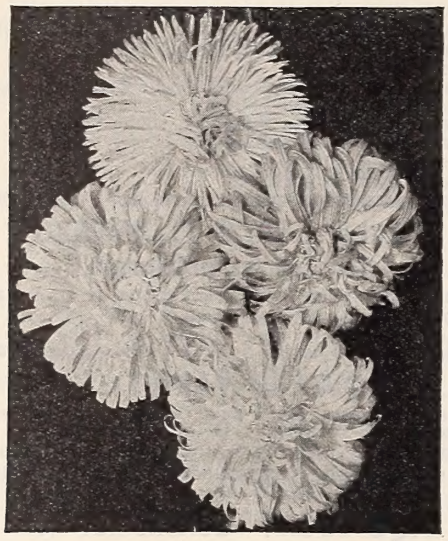
35. **AMERICAN BRANCHING WILT-RESISTANT**—Finest late blooming Aster. The deep, heavy incurved flowers, which are 3 to 4 inches across, are borne on rigid stems of 2 feet, making it one of the most valuable flowers for cutting. We can offer this Aster in the following colors: **White, 35A; Shell-pink, 35B; Purple, 35C; Crimson, 35D,** and **Azure-blue, 35E. Packets 10c each, ⅛ Ounce 35c.**

36. **FINEST MIXED—Packet 10c, ⅛ Ounce 25c.**

37. **PEERLESS YELLOW**—Best yellow Aster; branching type; 2 feet high. **Packet 15c.**

ASTERS (Continued)

38. **COMET**—Slender and curled petals, forming loose flowers of semi-globe shape. **Packet 10c, ⅛ Ounce 25c.**
39. **CHINA ASTERS**—Choice mixed. **Packet 10c, ⅛ Ounce 25c, ½ Ounce 40c, 1 Ounce 75c.**
40. **TRAUFFAUT'S PEONY FLOWERED PERFECTION MIXED**—A large and beautiful Aster of the pyramidal type. Flowers are large, almost round with incurved petals as in Peonies. One of the best for cutting. Height 2 feet. **Packet 10c, ⅛ Ounce 25c.**



ASTER

41. **GIANT VICTORIA FINEST MIXED**—A beautiful and distinct Aster. Flowers double. Height 1⅔ feet. Long, stout stems. **Packet 10c, ⅛ Ounce 30c.**
42. **MICHAELMAS DAISY MIXED (Perennial Aster)**—Very showy, late flowering perennial plant. Valuable as a border decoration, or cut flower. Height 2 to 3 feet; in bloom during May and June. If sown in the early spring, will flower the first season. **Packet 10c, ⅛ Ounce 50c.**

BABY'S BREATH—See Gypsophila

BACHELOR'S BUTTON—See Centaurea and Gomphrena

BALLOON VINE—(Love-in-a-puff)

43. **CARDIOSPERMUM HALICACABUM**—A rapid growing annual vine with pretty foliage. Flowers white, followed by seed pods resembling miniature balloons. Always a great interest to the children. Most attractive when rambling over a trellis, and does best in a warm sheltered position. 8 to 10 feet. **Packet 10c, 1 Ounce 25c.**

DOUBLE CAMELLIA-FLOWERED BALSAMS (Lady's Slipper or Touch-Me-Not) (A)

An old and popular garden annual, producing lovely masses of beautifully colored double flowers in great profusion. Very easily grown, coming into bloom within a few weeks from sowing. Start seed in April, or sow out of doors in May. Height 2 to 3 feet.

44. **WHITE PERFECTION (Alba Perfecta)**—Very double, pure white. **Packet 10c.**
45. **FINEST MIXED**—A splendid mixture. **Packet 10c, ¼ Ounce 25c.**

BALSAM APPLE (Momordica Balsamina) (A)

46. Annual climber with ornamental foliage; showy, golden-yellow fruit. Splendid for trellis, stumps, etc. **Packet 10c, ½ Ounce 25c.**

BALSAM PEAR (Momordica Charantia)

47. Very curious trailing vines with ornamental foliage; long, Pear-shaped, ornamental fruits. Annual. **Packet 10c, ½ Ounce 25c.**

BELLIS PERENNIS (English Daisy) (P)

A favorite perennial; plants are low-growing and bear numerous double flowered blooms. Excellent for edging beds or borders, rockeries, or used for edging beds of bulbs. Bloom from early spring to midsummer; 6 inches high. Sow seed any time from spring until August, cover lightly during winter.

48. **LONGFELLOW**—Dark rose, very double; extra large flowered. **Packet 10c, ⅛ Ounce 50c.**
49. **SNOWBALL**—Extra double, free flowering, white. **Packet 10c, ⅛ Ounce 50c.**
50. **DOUBLE GOOD MIXED**—A good mixture. **Packet 10c, ⅛ Ounce 30c.**

BRACHYCOME (Swan River Daisy) (A)

51. Free-flowering annuals, blooming profusely throughout the summer. Star-shaped flowers with bright centers, with lacy foliage. An assortment of colors. Much used in rockeries, small beds, etc. Height 1 foot. **Packet 10c, ¼ Ounce 30c.**

BLACK EYED SUSANS (See Thunbergia)

CALENDULA DOUBLE (Pot Marigold) (A)

A very splendid annual for all purposes, flowering freely throughout the summer and fall; very showy; easy culture. Valuable for beds or mixed borders; also splendid for pot culture, blooming freely in winter and spring. Height 12 to 18 inches.

52. **GOLDEN RADIO** — Petals large and quilled, giving the blooms a round cactus shape, different from other Calendulas; color, rich glowing yellow. **Packet 15c, ¼ Ounce 30c.**
53. **ORANGE KING** — Large rich orange-red flowers, fully double, with long stems. **Packet 10c, ½ Ounce 30c.**
54. **CALENDULA CHRYSANTHA or SUNSHINE**—A new Calendula, bearing large clusters of exquisite shade of clear buttercup-yellow, with long loosely arranged petals, resembling Chrysanthemums. The long stiff stems, making a fine variety for cutting and the bright color adds to the garden for a fine display. **Packet 25c, ¼ Ounce 75c.**

CALENDULA

55. **FINEST MIXED**—**Packet 10c, 1 Ounce 25c.**

CALLIOPSIS

Very showy and easily grown annuals; bloom continuously from early summer until frost. Tall varieties excellent for cutting; dwarf varieties make attractive beds, borders, etc. For early blooming, start seed indoors, and set out in the border.

56. **DRUMMONDII (Golden Wave)**—Flowers large; golden-yellow, center dark brownish red; long stemmed; 20 inches. **Packet 10c, ¼ Ounce 25c.**
57. **TALL SINGLE MIXED**—A well balanced mixture. **Packet 10c, ½ Ounce 20c.**
58. **DWARF SINGLE MIXED**—Choice varieties. **Packet 10c, ½ Ounce 25c.**

CAMPANULA (Canterbury Bells)

(New Annual in Mixture)

59. A new annual Canterbury which blooms from seed in less than six months. Plants 2 to 2½ feet, bearing 6 to 8 flower spikes. This mixture includes dark blue, light blue pink, rose and white. **Packet 15c.**

CAMPANULA MEDIUM (Canterbury Bells) (B)

60. **SINGLE MIXED**—Large, bell-shaped blooms during May and June. Showy, hardy biennial; 2 to 3 feet tall. Makes an attractive, showy bed. Transplant little plants early in October to the place where you want them to bloom the following summer. Protect with straw or hay in winter. **Packet 10c, ¼ Ounce 25c.**
61. **DOUBLE MIXED**—Fully double blooms in mixed variety. **Packet 10c, ⅛ Ounce 30c.**

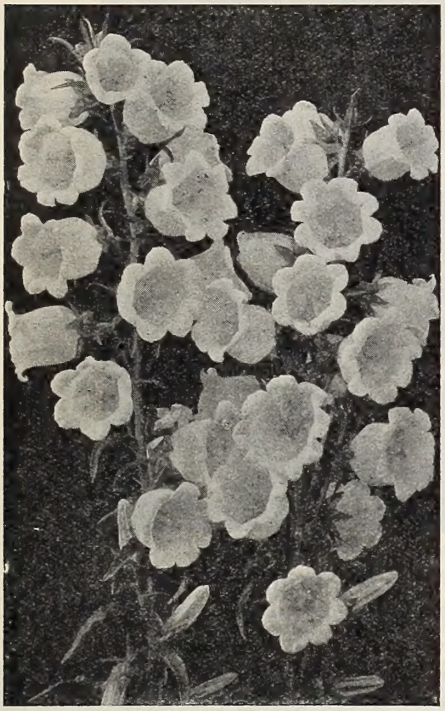
CAMPANULA CALYCANTHEMA (B) (Cup and Saucer Canterbury Bells)

This is the finest type of this deservedly popular garden biennial. They are different from the other types of Campanulas inasmuch as the calyx is extra large and of the same color as the flower, resembling a cup and saucer.

62. **DARK BLUE**—**Packet 10c, ⅛ Ounce 35c.**
63. **ROSE**—**Packet 10c, ⅛ Ounce 35c.**

CAMPANULAS OR BELLFLOWERS (P)

(Perennial Varieties)



CANTERBURY BELLS

64. GLOMERATA Dark blue flowers in clustered heads; blooms in July and August; height 18 inches. **Packet 15c, ⅛ Ounce 50c.**

65. LONGISTYLA—Large purple flowers with long style; height 1 to 1½ feet. Specially suitable for rock gardens. **Packet 10c, ⅛ Ounce 30c.**

66. PERSICIFOLIA MIXED — (Peach Bells) — A fine hardy Bellflower; cup-shaped flowers in pale blue and in white; bloom in June and July; height 2 to 2½ feet. Sow latter part of July until September 15. **Packet 15c, ⅛ Ounce 40c.**

67. PYRAMIDALIS (Chimney Bellflower) — Lavender - blue, bell-shaped flowers, blooming profusely during August. The most showy of all the varieties, forming a pyramid about 3 feet. **Packet 15c, ⅛ Ounce 35c.**

CANARY VINE (Tropaelum Canariense) (A)

68. A very beautiful annual climber; bearing the charming little canary-colored blossoms with a fancied resemblance to a bird with its wings half expanded. If seed are planted by the side of an arbor or trellis to run upon, it will run about 20 feet high and blossom from July until frost. **Packet 10c, ½ Ounce 25c.**

CANDYTUFT (Iberis)

(Annual Varieties)

One of the most popular annuals, useful for cutting and is most effective when grown in a mass. Plants grow about 12 inches high. Sow seed any time during the spring, and will bloom in about 8 weeks. To keep up successive blooming, sow seed at intervals of 2 or 3 weeks when danger of frost is past. Sow ¼ inch deep in fine rich soil, and transplant or thin out to 9 inches apart.

69. WHITE ROCKET—White. **Packet 10c, ½ Ounce 25c.**

70. ROSE—An Umbellata type, blooming continuously until frost. Fine for garden display. **Packet 10c, ½ Ounce 30c.**

71. FINEST MIXED—A good mixture. **Packet 10c, ½ Ounce 25c.**

CANDYTUFT (Iberis)

(Perennial Varieties)

72. SEMPERVIRENS—A very desirable dwarf spring flowering perennial; flowers pure white; specially suitable for rockeries. Height 1 foot. Foliage dark green. **Packet 10c, ⅛ Ounce 35c.**

73. QUEEN OF ITALY—Rosy-lilac; blooms profusely in early spring. Height about 1 foot. **Packet 10c, ⅛ Ounce 25c.**

CANNA (Indian Shot) (A)

74. Usually planted from bulbs, but may be grown from seed. Soak seed in luke warm water until they begin to swell, and sow in sandy soil which must be kept moist and warm. Sow seed early to flower the first season. Height 4 to 6 feet. In bloom from July until frost. **Packet 10c, ½ Ounce 25c.**

CARNATION MARGUERITE DOUBLE (A)

The most popular and satisfactory of the annual Pinks, as they begin flowering in about four months from time of sowing. 12 to 15 inches high. Flowers large, fragrant and produced in profusion until frost.

75. FINEST WELL BALANCED MIXED—Packet 10c, ⅛ Ounce 30c.

CELOSIA CHILDSI (Chinese Wool Flower)

A most distinct and beautiful new form of Celosia. The plants are freely branching and bear in profusion elegant ball-shaped flowers, resembling silky wool. We offer this variety in a fine mixture. Height 2 feet. Annual.

76. FINEST MIXED—Packet 10c, ⅛ Ounce 25c.

CELOSIA CRISTATA (Cockscomb) (A)

COCKSCOMB

These interesting and free flowering annuals are of easy culture; producing large, brilliant comb - like heads. Excellent for borders; height 1½ to 2 feet. In bloom from July until frost.

77. CRIMSON—Packet 10c, ⅛ Ounce 30c.

CELOSIA PLUMOSA (Feathered Cockscomb)

An excellent decorative plant. The feathery plumes are produced on long stems and are splendid for cutting. Annual.

78. FINEST MIXED—Packet 10c, ¼ Ounce 25c.

CENTAUREAS (A)

Such annuals as the Corn Flower, Sweet Sultan, etc., are included under Centaureas. They are very popular, as they are not only easily grown, but are splendid for garden decoration and for cutting.

CENTAUREA CYANUS (Double Corn Flowers)—A very desirable annual, sometimes known as Bachelor's Button, Blue Bottle, Ragged Sailor, Bluet and Ragged Robin. Always included in old-fashioned gardens because they make a wonderful display in the garden and last a remarkably long time in water. In bloom from June until frost. Height 3 feet.

80. DOUBLE BLUE—Select strain; same shade of blue as the single varieties. Specially popular as a cut flower. **Packet 10c, ¼ Ounce 25c.**

81. DOUBLE MIXED—Those who do not have space for the separate colors will find this a splendid mixture. **Packet 10c, ¼ Ounce 20c.**

82. MONTANA (Perennial Cornflower)—Dwarf type, with violet blue flowers. Excellent for cutting and for rockwork. In bloom from June until September. Prefers sunny locations. **Packet 10c, ⅛ Ounce 25c.**

83. CENTAUREA IMPERIALIS (Sweet Sultan)—This lovely annual variety is considered to be the most graceful and beautiful of all Centaurea. The flowers, which are sweet-scented, are borne in profusion on long stems, making it a choice cut flower. Height about 2½ feet. Seed should be sown early in the spring. We offer this in a mixture of lovely colors belonging to this splendid large flowering type. **Packet 10c, ¼ Ounce 25c.**

84. SAUVEOLENS (Yellow Sweet Sultan or Grecian Cornflower)—Very showy; annual. The large, yellow, sweet-scented flower is choice for cutting, as it lasts well in water. Height 2 to 2½ feet. **Packet 10c, ¼ Ounce 25c.**

CERASTIUM (Snow-In-Summer) (P)

85. TOMENTOSUM—A splendid spreading perennial plant; attractive silvery foliage; small white flowers. Splendid for rock gardens. In bloom during May and June. Height 10 to 12 inches. Prefers sunny locations. **Pkt. 10c, ⅛ Oz., 25c.**

CHINESE LANTERNS (See Physalis)

CHRYSANTHEMUM (A)

These popular and well known autumn flowers can be brought into bloom from seed sown early in the spring. Valuable for cut flowers or pot plants. Annual Chrysanthemums do not resemble in any respect the huge blooms offered in the florists' shops in the autumn. They are daisy-like blossoms of much grace and charm.

86. FRUTESCENS (Paris Daisy)—Hardy annual; blooming profusely from early summer until frost. Very effective and showy. Splendid for cutting, lasting well in water. Height 1 to 1½ feet. **Packet 10c, ¼ Ounce 20c.**

87. SINGLE MIXED—A pretty and valuable late autumn and early winter flower. They make a cheerful display and are most striking when sown in groups. The single types are as popular as the double. Height 1½ to 2 feet. Hardy annual. **Packet 10c, ¼ Ounce 20c.**

SHASTA DAISIES (Chrysanthemum Leucanthemum) (P)

88. ALASKA (Shasta Daisy)—An improved variety. Extra large flowers, usually about 5 inches across; pure white; stems about 2 feet. Hardy perennial. Another splendid cut flower. **Packet 10c, ⅛ Ounce 25c.**

CINERARIA HYBRIDA (B)

Exceedingly handsome as a decorative flower in the home or conservatory during spring. Sow seed from May to September for successive blooming. Biennial.

89. CINERARIA HYBRIDA GRANDIFLORA MIXED—Large flowering strain in many beautiful colors. **Packet 25c.**

90. CINERARIA HYBRIDA GRANDIFLORA NANA—A dwarf form of the previous sort, flowering profusely. A splendid mixture in many brilliant colors. **Packet 25c.**

COBAEA (Cup and Saucer Vine or Cathedral Bells) (A)

91. SCANDENS—A quick growing annual climber, attaining the height of 20 to 30 feet. The flowers are a pleasing shade of purple, cup or bell-shaped. Start under glass in early spring, or sow out of doors when danger of frost is past. **Packet 10c, ¼ Ounce 25c.**

COCKS COMB (See Celosia Cristata)

CONVOLVULUS (Morning Glory) (A & P)

An old standby in an annual climber; attains a height of about 15 feet.

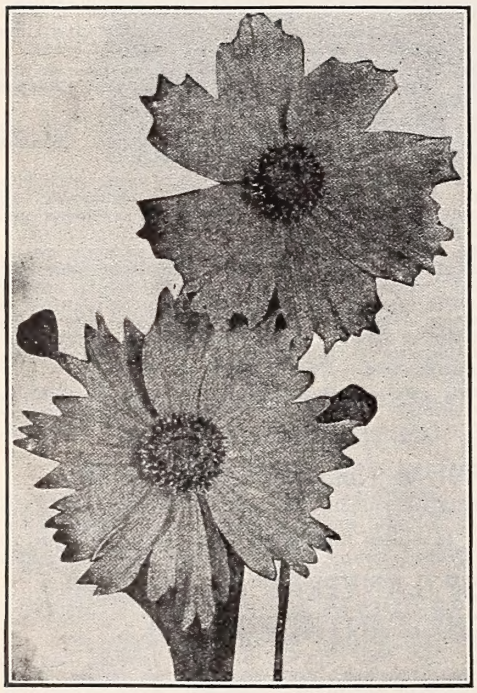
92. MAJOR MIXED—Flowers are large and colors are most varied, ranging from pure white, blush pink to crimson and blue. **Packet 10c, Ounce 20c.**

93. GIANT JAPANESE MIXED—A splendid mixture of large flowers in many beautiful colors. **Packet 10c, ½ Ounce 20c.**

94. MINOR MIXED—Handsome dwarf variety, richly colored. Splendid for borders, hanging baskets, window boxes. **Packet 10c, ½ Ounce 20c.**

95. MAURITANICUS (P)—A dainty perennial. Flowers, which are about an inch wide, are lavender-blue with white throats. Deservedly popular in rock-gardens and for hanging baskets. **Packet 10c, ¼ Ounce 25c.**

COREOPSIS (P)



COREOPSIS LANCEOLATA GRANDIFLORA

Handsome, free - flowering perennials, with blooms resembling a Cosmos. Flowers borne in great profusion from June until frost, and may be sown at any time from early spring until midsummer. Late plantings will flower next season.

96. GRANDIFLORA LANCEOLATA—Large yellow flowers produced all summer. Easily grown from seed, flowering the first year. Height 2 to 3 feet. **Packet 10c, ¼ Ounce 20c.**

COSMOS (A)

97. EARLY FLOWERING MAMMOTH SINGLE MIXED—This is a very popular strain of Cosmos, coming into bloom as early as July and continuing until frost. Flowers large, sometimes measuring 3 to 4 inches across. Height 4 to 5 feet. **Packet 10c, ½ Ounce 25c, Ounce 45c.**

98. LATE FLOWERING MAMMOTH SINGLE MIXED—One of the finest types of all Cosmos, resembling the former type in size and height. Unexcelled for cutting, and also make a marvelous display when used as a background for other annuals or perennials. **Packet 10c, ¼ Ounce 20c.**

99. LATE FLOWERING MAMMOTH SINGLE PINK—**Packet 10c, ¼ Ounce 25c.**

100. LATE FLOWERING MAMMOTH SINGLE WHITE—**Packet 10c, ¼ Ounce 25c.**

101. LATE FLOWERING MAMMOTH SINGLE CRIMSON—**Packet 10c, ¼ Ounce 25c.**

102. LATE DOUBLE CRESTED or ANEMONE FLOWERED MIXED—Flowers double, having a broad frill of long petals with a small contrasting tuft in the center. Large assortment of colors. Height 3 feet. **Packet 10c, ⅛ Oz., 25c.**

103. HYBRIDA KLONDYKE—Large flowering type, with magnificent bright orange flowers, sometimes measuring 2½ to 3 inches across. Start very early and confine roots in order to force it into bloom. **Packet 15c.**

COSMOS

COWSLIP (Primula) (P)

104a. Beautiful hardy spring flowers of different colors. Sweet scented. Perennial. **Hybrids, Mixed, Packet 10c.**

104b. YELLOW (Common Cowslip)—**Packet 10c.**

CYNOGLOSSUM (Chinese Forget-Me-Not)

105. AMABILE BLUE (A)—An annual of easiest culture. Strong growing, 18 inches high, and produce throughout the summer sprays of rich blue forget-me-not flowers. Very fragrant. **Packet 10c, ¼ Ounce 25c.**

106. WALLICHII (P)—Perennial; blue. About 8 to 10 inches high. **Packet 10c, ¼ Ounce 25c.**

CYPRESS VINE (Ipomoea Quamoclit) (A)

A very popular annual vine; producing clusters of star-shaped flowers and feathery foliage. Height about 15 feet.

107. RED—**Packet 10c, ½ Ounce 25c.**

108. WHITE—**Packet 10c, ½ Ounce 25c.**

109. QUAMOCLIT HYBRIDA (The Cardinal Climber)—Annual climber, beautiful foliage and scarlet flowers. **Packet 10c, ⅛ Ounce 25c.**

DAISY (See Bellis Perennis)

DELPHINIUM (Perennial Larkspur) (P)

A popular and desirable perennial wherever blue flowers are in request. Strikingly effective in beds, masses or borders. Seed may be sown any time from spring until fall. Admirable for cutting.

110. BELLADONNA—Large spikes of clear turquoise blue. A very free and continuous blooming variety. Height 3 feet. **Packet 10c, ⅛ Ounce 35c.**

111. BELLAMOSUM—A dark blue form of the Belladonna type, with the same free - blooming and strong growth qualities. **Packet 10c, ⅛ Ounce 50c.**

112. CARDINALE—Flowers large, color brilliant scarlet. Height 2½ to 3 feet. **Packet 10c, ⅛ Ounce 30c.**

113. MIXED VARIETIES—Finest mixed, all varieties. **Packet 10c, ⅛ Ounce 30c.**

DELPHINIUM

114. HYBRIDS "SPECIAL" MIXED—An extra fine strain, containing many shades of blue. The plants are strong and vigorous, with long spikes of large flowers. Height 5 feet. **Packet 10c, ⅛ Ounce 35c.**

DIANTHUS BARBATUS (Sweet William) (P)

Old-time flowers cherished and grown in every little garden. Produces a great variety of brilliant colors and profusion of bloom from July to October. Plant in autumn or early spring, 8 to 12 inches apart. Height about 18 inches. Perennial.

115. SINGLE, DARK CRIMSON—Packet 10c, ¼ Ounce 35c.
116. SINGLE, PINK BEAUTY—Packet 10c, ¼ Ounce 35c.
117. SINGLE, MIXED—Packet 10c, ¼ Ounce 25c.
118. DOUBLE WHITE—Packet 10c, ¼ Ounce 35c.
119. DOUBLE MIXED—Packet 10c, ¼ Ounce 30c.

DIANTHUS HYBRIDUS (A)

120. SWEET WIVELSFIELD—A hardy annual, resembling a large flowering Sweet William, with characteristics of both the Sweet William and the China Pink, being a cross between Dianthus Alwoodii and the Sweet William. Height 1 foot; in bloom July and August. **Packet 10c, ⅛ Ounce 30c.**

DIANTHUS—Pinks (P)

HARDY GARDEN PINKS

121. CAESIUS (Cheddar Pink)—Sort of grayish foliage, produces masses of rose-colored fragrant flowers. 6 to 12 inches; in bloom during May and June. Fine for rock gardens. Perennial. **Packet 10c, ⅛ Ounce 25c.**
122. PLUMARIUS (Grass Pink or Pheasant's Eye)—Single hardy Pinks, deeply fringed flowers with clove scent, in fine mixed variety of colors. Splendid variety for cutting, also makes a fine edging. In bloom in June; height 1⅔ feet. Mixed Varieties only. **Packet 10c, ⅛ Ounce 25c.**
123. DIANTHUS CHINENSIS (China Pinks)—Double flowers in a large variety of colors. Ht. 1½ ft. **Pkt. 10c, ¼ Oz. 25c.**
124. RIVIERA MARKET OR GILLAUD—The only variety that will produce flowers the first season. Thrive either in open ground or in pots. Height 1 foot. **Packet 15c.**

DICTAMNUS (Gas Plant) (P)

Good old-fashioned perennial, with glossy foliage. Produces quaintly formed flower spikes on upright racemes.
125. FRAXINELLA—Large, showy, pink flowers, about 2½ ft. high. In bloom during June and July. **Packet 10c.**

FOXGLOVE

DIDISCUS (Blue Lace Flower)

(Annual)

126. COERULEUS. Very pretty annual, blooming profusely from July until frost. Long slender stems terminate in flat clusters of lavender blue lace-like flowers, somewhat resembling Queen Anne's Lace. 18 in. high. **Pkt. 10c, ⅛ Oz., 30c.**

DIGITALIS (Foxglove)

(Biennial)

Old fashioned biennials, producing in abundance long spires of tubular-shaped flowers in June and July. Used extensively in edging shrubberies and half shady places. Ht. 2 to 4 ft.

127. ALBA—The white-flowered Foxglove. Height 4 ft. **Pkt. 10c, ¼ Oz., 40c.**
128. CHROME YELLOW—3 feet high. **Pkt. 10c, ¼ Oz. 40c.**
129. PURPLE—4 feet. **Pkt. 10c, ¼ Oz. 40c.**
130 ROSE—4 feet. **Packet 10c, ¼ Ounce 40c.**
131. MIXED VARIETIES—All of the above varieties in mixture. **Packet 10c, ¼ Ounce 25c.**

DIMORPHOTHECA (African Golden Daisy) (A)

Most of us know the African Daisy and have admired their bright blossoms which are the earliest to come in the spring. A striking effect is obtained by using mixed colors of African Daisies, and the dark shades of bedding mixture of Petunias, sowing the seed broadcast or setting out the plants informally. Annual.

AFRICAN DAISY

133. AURANTIACA SPECIAL MIXED—Showy, free-flowering annuals from South Africa. Plants bushy, growing about 12 or 15 inches high; the blooms measuring about 2½ inches across. **Packet 10c, ⅛ Ounce 25c.**
134. HYBRIDA MIXED—New hybrids mixed. **Packet 10c, ⅛ Ounce 25c.**

DOLICHOS (Hyacinth or Jack Bean) (A)

A vigorous growing annual climber, with bean-like flowers, splendid for covering arbors, trellis, walls, wire, etc. Ht. 10 ft.
135. MIXED VARIETIES—Packet 10c, 1 Ounce 20c.

ERYNGIUM (Sea Holly) (P)

136. Hardy perennials with rigid, spiny leaves and beautiful thistle-like flowers of amethyst blue. Flowers are especially pretty during July and August. **Packet 10c.**

ECHINOCYSTIS (Wild Cucumber Vine) (A)

137. LOBATA—Quick growing annual. Bright green foliage and sprays of white flowers during July and August. **Packet 10c, Ounce 30c.**

ESCHSCHOLTZIA (California Poppy) (A)

Handsome annuals of easy culture. Large Poppy-like flowers with fine cut foliage. Plants are bushy, 1½ feet high, and produce in abundance brilliantly colored, four petaled flowers from July until frost.

138. MORSE'S EXTRA GOLDEN—Packet 15c, ⅛ Ounce 30c.
139. SEMI-DOUBLE CHOICE MIXED—Packet 10c, ¼ Oz. 35c.
140. AUTUMN GLORY—Hardy annual. Large double flowers, having outer petals of brilliant orange-crimson. Inside of petals, coppery orange. **Packt 10c, ¼ Ounce 25c.**

EUPHORBIA (A)

An easily grown annual, with showy ornamental foliage. Suitable for borders. Height 2 to 3 feet.
141. HETEROPHYLLA (Mexican Fire Plant) — Sometimes called the annual Poinsettia because of its resemblance to this plant. Height 2 to 3 feet. **Pkt. 10c, ¼ Oz. 30c.**
142. VARIEGATA (Snow-on-the-mountain)—Pretty foliage; veined and margined with white. Height about 2 feet. **Packet 10c, ¼ Ounce 25c.**

GAILLARDIA (Blanket Flower)

Showy perennials of easiest culture. Even though the seasons are dry, Gaillardia flower profusely from June to November. Plant in spring or fall, 6 to 8 inches apart. Most effective in masses. Height about 18 inches.

GAILLARDIA Grandiflora. BURGUNDY (P)

143. Darkest and most brilliant of perennial Gaillardias. Coppery self color. If started indoors flowers may be produced first year from seed, when they will bloom profusely through the summer. **Packet 25c.**
144. GRANDIFLORA FINEST MIXED (P)—Pkt. 10c. ¼ Oz. 25c.
145. GAILLARDIA (Blanket Flower) INDIAN CHIEF—(See Cover Page) (A)—A distinctive annual variety of the Picta or pointed leaf type, of easy culture. Plants grow about 18 inches high, producing blooms of large, single metallic bronzy-red color, with mahogany brown centers, from early summer until late fall. Fine for beds, borders and cutting and do not need to be transplanted. **Packet 15c.**

GERANIUM

146. Well known favorites of large and fine varieties. Geraniums are easy to grow from seed, and should be started indoors and transplanted to the open in May or June. Height 1½ feet. **Packet 10c.**

GEUM (Avens)

Very useful hardy perennials. The varieties we offer are very showy, and produce an abundance of attractive flowers throughout the summer.
147. MRS. BRADSHAW—Large flowered, brilliant orange-scarlet blossoms. **Packet 10c.**
148. LADY STRATHEDEN—Large double flowers of rich golden yellow. **Packet 15c.**
149. HYBRIDA MIXED—Packet 10c.

GOMPHRENA (Globe Amaranth) (A)

These showy annual Everlasting flowers are sometimes called Bachelor's Button. The flowers resemble clover heads in a large assortment of colors. May be dried and used for winter bouquets.
150. MIXED VARITIES—Packet 10c, ¼ Ounce 25c.

ORNAMENTAL GOURDS

GOURDS (Ornamental) (A)

Rapid growing annual climbers, with curious-shaped fruits.

151. **AFRICAN PIPE OR LARGE CALABASH—Packet 10c, Ounce 25c.**
152. **DIPPER OR SIPHON—Packet 10c, Ounce 25c.**
153. **EGG-SHAPED, WHITE—Packet 10c, Ounce 25c.**
154. **DISH CLOTH—Packet 10c, Ounce 25c.**
155. **SMALL ORANGE—Packet 10c, Ounce 25c.**
156. **LARGE AND SMALL SORTS MIXED—Pkt. 10c, Oz. 25c.**

GYPSOPHILA (Baby's Breath) (P)

A dainty perennial, bearing small misty-like flowers. Height 3 feet. In bloom in July and August.

157. **PANICULATA ALBA, SINGLE**—Hardy perennial variety; 2 to 3 feet high, with masses of minute white flowers. **Packet 10c, ¼ Ounce 25c.**
158. **REPENS, ROSEA**—A trailing perennial for the rockery. Flowers whitish pink. Height 6 inches. **Pkt. 10c, ⅛ Oz. 25c.**
159. **REPENS, ROSEA AND WHITE MIXED**—Tiny whitish pink and white flowers in mixture. **Pkt. 10c, ⅛ Oz. 25c.**

HELENIUM (Helen's Flower or Sneezewort) (P)

Early flowering Daisies of easy culture. Plant in spring or fall.

160. **HOOPESII**—Yellow; Height 2 feet. **Packet 10c.**

HELIANTHUS

HELIANTHUS (Sunflower) (A & P)

Helianthus give a gay display for early autumn.

161. **CUT - AND - COME - AGAIN**—Annual Sunflower. Single golden yellow, with petals somewhat curled. **Packet 10c ½ Ounce 25c.**
162. **ANGUSTIFOLIUS (Autumn Glory)** — Free-flowering and hardy, blooming in late autumn. 4 feet; yellow flowers, with black centers. **Packet 10c, ⅛ Ounce 25c.**
163. **PERENNIAL SORTS MIXED**—Finest perennial varieties. Height 3 feet. **Packet 10c, ⅛ Ounce 40c.**

HELICHRYSUM (Strawflower) (A)

The most popular of the Everlasting flowers. The flowers are double, with a slight resemblance to small Chrysanthemums. A favorite dried cut flower.

164. **FINEST MIXED**—A well-blended assortment. **Packet 10c, ¼ Ounce 25c.**

HELIOTROPE (Cherry Pie) (HHP)

Fragrant half-hardy perennials. Seed sown indoors and transplanted in May will make a fine summer plant. May be sown outdoors in May. Height 18 inches.

165. **FINEST MIXED—Packet 10c, ⅛ Ounce 25c.**

HESPERIS (Sweet Rocket) (P)

166. Hardy perennial, bearing spikes of showy flowers in mixed varieties; very fragrant. Height 3 feet. Blooms in June and July. **Packet 10c, ¼ Ounce 25c.**

HIBISCUS (Marshmallow) (P)

167. **GIANT FLOWERING FINEST MIXED**—Flowers large and produced in all shades of crimson, pink and white. 5 feet. Perennial. **Packet 10c.**

HOLLYHOCK (P)

An old favorite hardy perennial plant. Height 6 to 7 feet. Seed sown early will bloom the first year.

168. **CHATER'S DOUBLE MAROON—Packet 10c, ⅛ Oz. 25c.**
169. **CHATER'S SUPERB DOUBLE WHITE—Packet 10c, ⅛ Ounce 25c.**
170. **CHATER'S SUPERB DOUBLE ROSE PINK—Packet 10c, ⅛ Ounce 25c.**
171. **CHATER'S DOUBLE MIXED—Packet 10c, ¼ Ounce 35c.**
172. **CHATER'S SINGLE MIXED—Packet 10c, ¼ Ounce 20c.**

HUMULUS (Japanese Hop Vine) (A)

173. **JAPONICA VARIEGATA**—A hardy annual vine, having deeply lobed leaves with toothed edges and hairy rough surface, with white and yellow markings. **Pkt. 10c, Oz. 25c.**

IPOMOEA (A)

174. **HEAVENLY BLUE**—Large sky-blue flowers, shading light towards center. Annual. **Packet 10c, ¼ Ounce 25c.**
175. **NOCTIFLORA (Moon Vine)**—Pure white fragrant flowers at evening. Annual. **Packet 10c, ¼ Ounce 25c.**

KOCHIA (Summer Cypress or Mexican Fire Bush) (A)

176. **CHILDSII**—Cypress-like hedge plants of bright green, in late autumn turning a deep red. 2 feet. **Packet 10c, ¼ Oz. 20c.**

LANTANA (A)

Verbena-like flowers, blooming until frost. Ht. 2 ft. Annual.

177. **HYBRIDA MIXED—Packet 10c, ¼ Ounce 30c.**

LARKSPUR (A)

TALL DOUBLE STOCK FLOWERED

Upright, branching in habit, with beautiful double flowers. Height 2½ feet.

178. **DARK BLUE** Packet 10c, ¼ Ounce 25c.
179. **BRIGHT ROSE** — Packet 10c, ¼ Oz. 35c.
180. **FINEST MIXED** — Packet 10c, ¼ Ounce 20c.

DWARF EMPEROR LARKSPUR (A)

A dwarf compact branching type. 2 feet.

181. **PINK DELIGHT** — Soft rose. **Packet 10c, ¼ Ounce 35c.**
182. **VIOLET PURPLE** — **Packet 10c, ¼ Ounce 25c.**
183. **AZURE BLUE** —**Packet 10c, ¼ Ounce 25c.**
184. **DARK BLUE** —**Packet 10c, ¼ Ounce 25c.**
185. **FINEST MIXED** — **Packet 10c, ¼ Ounce 20c.**

LARKSPUR

LATHYRUS LATIFOLIUS (Perennial Sweet Peas) (P)

Beautiful clusters of pea-like blossoms in delicate colors. Continually in bloom during the summer.

186. **FINEST MIXED—Packet 10c, ½ Ounce 20c, Ounce 35c.**

LIATRIS (Blazing Star or Gay Feather) (P)

187. **CALLILEPIS**—Showy, hardy perennial, bearing spikes of deep lilac flowers from July to September. 3 feet. Plant early in spring or autumn. **Packet 15c.**

LINUM (Flax) (P)

188. **PERENNE**—Hardy perennial, with delicate foliage and bright blue flowers. 2½ feet. Blooms from May until August. **Packet 10c.**

LOBELIA (A)

189. **COMPACTA CRYSTAL PALACE**—The best variety for edging; very compact. Deep foliage, flowers dark blue. Height 4 inches. Annual. **Packet 10c, ⅛ Ounce 40c.**

190. **GRACILIS MIXED**—Plants of trailing habit; suitable for vases and baskets. Height 9 inches. Annual. **Packet 10c, ⅛ Ounce 35c.**

LUNARIA (Honesty or Money Plant) (B)

191. Biennial. Purple flowers followed by transparent, silvery seed pods. 2 ft. Ornamental for winter bouquets. **Packet 10c, ¼ Ounce 25c.**

LUPINUS (Lupin)

(Annual Varieties)

Quick-growing annuals, with erect spikes of prettily colored, pea-shaped blossoms. Height 2 feet.

192. **ROSE PINK—Packet 10c, ½ Ounce 20c.**

193. **DEEP PURPLE—Packet 10c, ½ Ounce 20c.**

194. **YELLOW—Packet 10c, ½ Ounce 25c.**

LUPINUS

(Perennial Varieties)

Handsome hardy perennials. Graceful spikes, bearing innumerable pea-shaped blooms. June until September. Height 2 feet.

195. **POLYPHYLLUS BLUE—Packet 10c, ¼ Ounce 25c.**

196. **POLYPHYLLUS ROSEUS—Packet 10c, ¼ Ounce 40c.**

197. **POLYPHYLLUS SUNSHINE**—Large bright yellow flowers borne on solid and stately spikes. **Packet 10c, ¼ Oz. 40c.**

198. **POLYPHYLLUS MIXED**—Includes all colors. **Packet 10c, ½ Ounce 35c.**

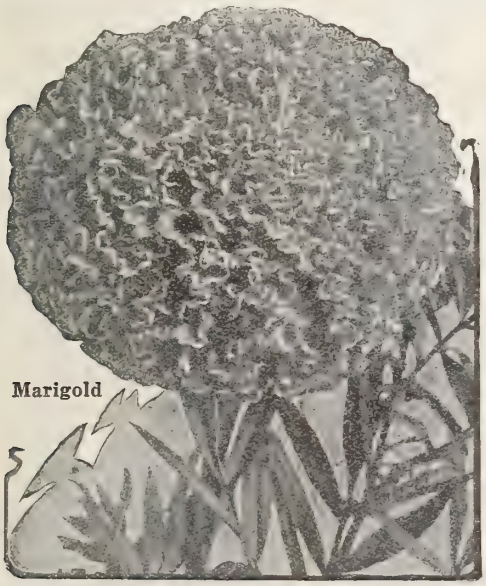
LYCHNIS (Rose Campion) (P)

199. **CHALCEDONICA (Jerusalem Cross)**—Handsome heads of flaming scarlet flowers, blooming all summer. Height 3 feet. **Packet 10c.**

MARIGOLD (Tagetes) (A)

TALL DOUBLE AFRICAN MARIGOLD

The flowers are large, almost completely round, and very spongy in texture, that is, the petals are very firmly and compactly arranged, and do not crush. This characteristic adds to the keeping qualities of the plant whether cut or on the plant. An annual of easy culture.



Marigold

200. **FINEST MIXED—Packet 10c, ¼ Ounce 25c, Ounce 85c.**

201. **GUINEA GOLD**—What a prize one has in this Marigold! A treasure for any garden! Superb flowers, 2 to 2½ inches across, of loose, ruffled, frilled form of a brilliant shade of orange, flushed with gold. Arranged in a jet black or compact blue bowl, Guinea Gold can scarcely be surpassed for decorative effect in any part of the house, especially as the characteristic marigold odor has almost entirely disappeared. Graceful, pyramidal habit, growing about 2 to 2½ feet high. **Packet 15c, ⅛ Ounce 30c, ½ Ounce $1.00.**

SINGLE FRENCH VARIETIES

202. **SIGNATA PUMILA**—Superb border, edging and rock garden plant; covered with small, single bright orange flowers. 10 in. **Packet 10c, ¼ Ounce 25c.**

203. **DWARF MIXED**—Single flowers, 9 inches. Bloom from June until frost. **Packet 10c, ¼ Ounce 25c.**

DWARF FRENCH DOUBLE MARIGOLD

204. **MIXED**—Flowers very large, tight double blooms of orange yellow and mahogany. **Packet 10c, ¼ Ounce 20c.**

MARIGOLD GUINEA GOLD

MARVEL OF PERU (Four o'Clocks) (A)

208. **TALL, MIXED**—Free flowering hardy annuals. Fine assortment of mixed colors. Height 2 feet. **Packet 10c, Oz. 25c.**

209. **DWARF, MIXED**—Compact plants; very showy. Height 1 foot. **Packet 10c, Ounce 25c.**

MIGNONETTE (Reseda) (A)

Fragrant annuals, flowering continually all season. Height 18 inches.

210. **ODORATA GRANDIFLORA—Packet 10c, Ounce 25c.**

MYOSOTIS (Forget-Me-Not) (P)

212. **ALPESTRIS, BLUE**—Light blue flowers produced in clusters. Height 9 inches. Sow seed in autumn or spring. **Packet 10c, ¼ Ounce 35c.**

NASTURTIUM—Tropaeolum (A)

DWARF OR BEDDING VARIETIES

Hardy annual of easy culture, producing profusely attractive blossoms until frost.

NASTURTIUM

215. **AURORA**—Red-orange.

216. **BEAUTY**—Bright scarlet striped with yellow.

217. **CLOTH OF GOLD**—Golden yellow foliage, light scarlet flowers.

218. **EMPRESS OF INDIA**—Deep crimson, dark foliage.

219. **GOLDEN KING**—Brilliant yellow, dark leaves.

220. **KING THEODORE**—Rich red, dark foliage.

221. **KING OF TOM THUMB**—Brilliant yellow flowers, blotched maroon.

222. **RUBY KING**—Light ruby-red.

ABOVE VARIETIES, 15c PER OUNCE; ¼ POUND, 40c.

223. **DWARF IVY-LEAVED**—Leaves are dark green, star-shaped, white-veined, resembling the English Ivy. The bright blossoms are deeply fringed. **Packet 10c, Ounce 30c.**

224. **DWARF MIXED**—A splendid assortment of the above named varieties. **Ounce 10c, ¼ Pound 25c, Pound 75c.**

225. **GOLDEN GLEAM**—Vigorous, bushy plants with large, double, sweet-scented, golden yellow blooms, borne on erect, stiff stems about 6 inches in length. Easy to grow and will produce a mass of beautiful flowers all season. **Packet 15c, ½ Ounce 25c, Ounce 45c.**

230. **TALL VARIETIES MIXED**—Flowering climbers of easiest culture, bearing in profusion gorgeous flowers in masses until frost. **Ounce 10c, ¼ Pound 30c, Pound 85c.**

NICOTIANA (Flowering Tobacco) (A)

231. **AFFINIS**—Sweet scented, pure white flowers borne in large clusters. 4 to 5 feet high. **Packet 10c.**

232. **SANDERAE CRIMSON KING**—Dark velvety crimson. Flowers large, sweet-scented. **Packet 10c.**

OENOTHERA (Evening Primrose) (HP)

233. EVENING SCENTED PRIMROSE—Large Poppy-like blossoms which open every evening and last well into the next day. Prefer sunny locations. **Packet 10c.**

OXALIS (A)

234. Pretty little, half-trailing annual with clover-like foliage and bright flowers. Fine for hanging baskets. **Packet 10c.**

PANSIES (A)

To make your garden complete have Pansies somewhere. They thrive best in cool locations, although they will flourish in dry warm positions if the ground is well prepared, using plenty of well rotted cow manure or a leaf mould. Seed should be sown late in July or August for early spring blooming. They will survive the winter if covered well in the fall with leaves or mulch. Pansy clumps can also be procured from us in the spring, but are not mailable.

PANSY

235. HEARTSEASE—Universally admired, producing an endless variety of colorful plants. **Packet 10c, ¼ Ounce 35c.**

236. GIANTS OF CALIFORNIA — A splendid mixture, flowers large and in a fine range of colors. **Packet 15c, ⅛ Ounce 50c.**

237. GIANT TRIMARDEAU CHOICE MIXED—This mixture contains the finest extra large varieties. **Packet 10c, ⅛ Ounce 30c, ½ Ounce 75c.**

238. G. & T. CO.'S EXTRA MIXED—This mixture contains the finest extra large varieties. **Packet 15c, ⅛ Ounce 30c.**

TUFTED PANSIES (SEE VIOLA)

PENTSTEMON (Beard Tongue) (P)

240. Handsome perennials, producing large spikes of flowers much resembling the foxglove blossoms, in a large assortment of colors. Sow seed early in the spring and the plant will bloom the first year. Height 1 to 2 feet, and in bloom from June to August. Fine for beds or groups in borders. **Packet 10c.**

PETUNIAS (A)

Petunias are very desirable, as they make a splendid outdoor decoration, especially in window and porch boxes, hanging baskets and pots; also equally as effective in the flower garden. Petunias bloom early and continue a mass of blooms until frost. Often reseed themselves.

PETUNIA

SINGLE BEDDING VARIETIES

241. HOWARD'S STAR—A reddish purple with a white star. **Packet 10c, ⅛ Ounce 50c.**

242. ROSE OF HEAVEN—A pretty rose pink. Plants dwarf and bushy. **Packet 15c, ⅛ Ounce 50c.**

243. ROSY MORN—Delicate rose-pink with white throat. **Packet 10c, ⅛ Ounce 60c.**

244. SPECIAL MIXTURE—Striped and Blotched varieties for bedding. **Packet 10c, ¼ Ounce 30c, ½ Ounce 50c.**

245. ALBA—White. **Packet 10c.**

BALCONY PETUNIAS

Flowers large, free flowering. Excellent for porch and window boxes, baskets, etc. This variety is also used for bedding.

246. FINEST MIXED—A splendid assortment. **Packet 10c, ⅛ Ounce 75c.**

SINGLE FRINGED VARIETIES

Flowers large, beautifully fringed.

247. ROSALIND—Delicate Rose.
248. VENOSA—Purple.
249. BRILLIANT ROSE.
250. MIXED VARIETIES.
PACKETS 25c EACH—5 PACKETS FOR $1.00.

DOUBLE FRINGED VARIETIES

251. BRILLIANT ROSE.
252. GOTELIND—New Pink.
253. VIOLA—Deep violet-purple.
254. MIXED VARIETIES—All of the above varieties in mixture.
255. DOUBLE FRINGED WITH PLAIN EDGES, MIXED—A splendid assortment of well blended colors.
PACKETS 25c EACH—5 PACKETS FOR $1.00.
256. RUFFLED GIANTS, MIXED—A superb mixture. **Packet 20c.**

PHLOX DRUMMONDII (A & P)

Free blooming annuals of easy culture. Excellent for bedding or massing, producing blooms of brilliant colors from midsummer until frost.

ANNUAL VARIETIES

260. WHITE.
261. BRILLIANT ROSE WITH DARK EYE.
262. SCARLET WITH DARK EYE.
PACKETS 10c EACH, ⅛ OUNCE 30c.
263. DRUMMONDII MIXED—Packet 10c, ⅛ Ounce 25c.

DRUMMONDII NANA COMPACTA—DWARF PHLOX

264. The dwarf annual varieties grow about 6 inches high, and are valuable for edgings and for massing in low beds, as their blossoms are nearly as large as the tall plants. Bloom profusely all summer. **Packet 10c, ⅛ Ounce 30c.**

HARDY PERENNIAL PHLOX (P. Decussata)

Hardy Phlox is undoubtedly the most effective and useful among the perennials, blooming in the late summer and early fall. Phlox thrive best in well drained soil, enriched with rotted manure or bone meal. Flowers are tall, growing about 3 feet high, and produce immense heads of brilliantly colored flowers.

265. RED SHADES—Packet 10c, ⅛ Ounce 40c.
266. WHITE AND LIGHT SHADES—Packet 10c, ⅛ Ounce 40c.
267. MIXED—The above varieties in mixture. **Packet 10c, ⅛ Ounce 35c.**

PHYSALIS (Chinese Lantern) (P)

270. FRANCHETI—These popular perennials are exceedingly effective when cut in the fall and dried for winter decoration. Grows about 2 feet high, having bright orange-scarlet lantern-like fruit. **Packet 10c, ⅛ Ounce 25c.**

PHYSOSTEGIA (False Dragon Head) (P)

271. VIRGINIANA—A perennial of imposing appearance, producing in July and August tall spikes of delicate pink tubular flowers. Height about 4 feet. A very satisfactory cut flower, especially for tall vases. **Packet 10c.**

PLATYCODON (Balloon Flower) (P)

272. An outstanding perennial, bearing large bell-shaped blue flowers in July and August. Buds resemble small balloon; height 2 to 2½ feet. Sow seed early in the spring. **Packet 10c.**

POLEMONIUM (Jacob's Ladder) (P)

273. These are one of the finest hardy perennials for borders, growing 2 feet high. Flowers are blue, bell-shaped and make a very good plant for a showy border. In bloom during May and June. **Packet 10c.**

POLYGONIUM (Knot-weed) (P)

274. SIEBALDI—Perennial, growing about 8 feet high. Flowers are of a whitish hue. **Packet 10c.**

POPPY (Papaver)

Annual Poppies are of easy culture, but must be sown where wanted to bloom, as they do not transplant well. Sow seed thinly, about ¼ inch deep and cover lightly.

SINGLE ANNUAL VARIETIES

278. SHIRLEY MIXED—These are generally single or semi-double. Height 2 feet. Annual. **Packet 10c, ¼ Ounce 25c.**
279. TULIP POPPY—Beautiful free-flowering annuals growing about 2½ feet, and produce blooms of the brightest scarlet. **Packet 10c, ¼ Ounce 25c.**

DOUBLE ANNUAL VARIETIES

280. PEONA-FLOWERED MIXED—Large, showy, globular flowers, resembling peonies. Height 18 in. **Pkt. 10c, ½ Oz. 20c.**

POPPY (Continued)

POPPY

ICELAND POPPIES (Papaver Nudicaule) (HP)

281. MIXED VARIETIES—Hardy perennials, flowering first year from seed. Bright green fern-like foliage, with brilliant flowers. Height 18 inches. **Packet 10c, ⅛ Oz. 25c.**

282. SINGLE YELLOW—**Packet 10c, ⅛ Ounce 25c.**

ALPINE POPPY (Papaver Alpinum)

283. FINEST MIXED — Single flowers in various colors; beautiful foliage. Ideal for pots and rockeries. Perennial. **Packet 10c, ⅛ Oz. 30c.**

ORIENTAL POPPIES (Perennial)

284. ORIENTALE—Large orange scarlet flowers, with black blotch on each petal. Leafy stems; height about 3 feet. **Packet 10c, ⅛ Ounce 25c.**

285. ORIENTALE MIXED—Packet 10c, ⅛ Ounce 30c.

CALIFORNIA POPPY (See Eschscholtzia)

PORTULACA (Sun Plant or Mexican Rose) (A)

Hardy annual low growing plants. Thriving best in light sandy soil in full sun. The colors are rich and brilliant. Used as an edging or in solid masses. Height 6 inches.

286. GRANDIFLORA SINGLE MIXED—Pkt. 10c, ¼ Oz. 25c.

287. DOUBLE MIXED—Packet 10c, ⅛ Ounce 35c.

PUERARIA (Kudzu Vine) (P)

288. Hardy growing vine, growing 20 to 40 feet in one season. Large heart-shaped leaves and small rosy-purple pea-shaped flowers, blooming in August. **Packet 10c, ½ Ounce 25c.**

PYRETHRUM (Painted Daisy) (P)

289. ROSEUM, SINGLE MIXED—Showy perennial flowers on long stems, producing daisy-like blooms in various shades of rose and pink. 2 feet high. Blooms in the spring and fall. **Packet 10c.**

RICINUS (Castor Oil Bean) (A)

291. CAMBODGIENSIS — Ornamental annuals of stately growth, with large dark metallic foliage, stems ebony-black. Fine for lawns, massing or center plants. **Pkt. 10c, Oz. 30c.**

292. ZANZIBARIENSIS—Their immense leaves and enormous plants exceed all other varieties. Foliage varying from light and dark green to a deep red. Annual. **Pkt. 10c, Oz. 30c.**

293. MIXED VARIETIES—Packet 10c, Ounce 25c.

RUDBECKIA (Cone-flower) (P)

294. GOLDEN GLOW—A perennial producing masses of double golden yellow flowers with dark centers, until September. Strong plants. **Packet 10c.**

SCARLET SAGE

SALPIGLOSSIS (Painted Tongue)

(Annual)

Large funnel-shaped flowers in an assortment of colors until frost. Start seed in doors or in hotbed about the last of March or sow outdoors when danger of frost is past. Height 2 feet.

295. LARGE FLOWERING MIXED—Packet 10c, ⅛ Ounce 25c.

SALVIA SPLENDENS (Scarlet Sage)

(Annual)

Scarlet Sage is perhaps the most popular annual bedding plant where bright richly colored flowers are desired

296. SPLENDENS—Tall erect, green foliage. Long spikes of brilliant scarlet flowers from July until frost. Height 2½ to 3 feet. **Pkt. 10c, ⅛ Oz. 25c, ½ Oz. 75c, Oz. $1.25.**

297. DICHROA—An annual of extra large variety, producing spikes of deep blue flowers. Height 4 to 5 feet. **Pkt. 10c.**

SCABIOSA (Mourning Bride)

(Annual Varieties)

Scabiosa is an old favorite garden flower, blooming profusely from mid-summer until frost. Sow seed after danger of frost is past. Height from 2 to 3 feet.

LARGE FLOWERED TALL DOUBLE VARIETIES:

300. ROSE—Packet 10c, ¼ Ounce 25c.

301. ALL COLORS MIXED—Packet 10c, ¼ Ounce 25c.

SCABIOSA

(Perennial Varieties)

302. CAUCASICA (Blue Bonnet)—Soft lilac-blue. About 3 feet high. Excellent for cutting. **Packet 15c, ⅛ Ounce 50c.**

303. CAUCASICA ALBA—Pure white. Height about 3 feet. **Packet 10c, ⅛ Ounce 35c.**

304. JAPONICA—A Japanese variety. Plants are bushy, 2½ to 3 feet high, with long wiry stems and lilac flowers. A splendid cut flower. **Packet 10c, ¼ Ounce 30c.**

305. MIXED VARIETIES—Packet 10c, ¼ Ounce 25c.

SCABIOSA

SCARLET RUNNER BEANS (A)

308. SCARLET RUNNERS—This vine is much used for trellis, arbors, etc. Also produces delicious edible beans. Succeeds best in rather cool locations, where they will attain a height of 12 to 15 feet. Annual. **Pkt. 10c, Oz. 20c.**

SCUTELLARIA (Skull Cap) (P)

309. Short wiry stems, clothed with clear-blue Snapdragon-like flowers. In bloom from June to August. 1 foot high. Perennial. **Packet 10c.**

SEDUM (Stonecrop) (P)

310. A pretty low-growing perennial. Ideal for rock gardens. We offer this in mixture only. **Packet 10c.**

SHASTA DAISY—See Chrysanthemum

STATICE (Sea Lavender) (P)

311. LATIFOLIA—A perennial; dark blue flowers, blooming July and August. Height 2 feet. **Packet 10c.**

STOCKS (Gilliflower) (A)

Large flowering dwarf, ten weeks. Annual. 12 inches.

312. YELLOW—Packet 10c.

313. LAVENDER—Packet 10c.

314. ROSE—Packet 10c.

315. FINEST MIXED—Packet 10c, ⅛ Ounce 35c.

316. SNOWFLAKE IMPROVED—A beautiful dwarf growing annual variety, with very large, double snow-white flowers. **Packet 10c, ⅛ Ounce 50c.**

STOKESIA (Cornflower Aster) (P)

320. CYANEA—Popular for hardy borders, and cutting. Produces from July to October large lavender-blue flowers. Height about 2 to 2½ feet. **Packet 10c, ⅛ Ounce 25c.**

SWEET PEAS (A)

Sweet Peas should be sown in drills latter part of November for fall planting, or as early as possible in spring, in rich friable soil. Prepare the bed thoroughly, working in a quantity of well-rotted manure, making a furrow four to six inches deep. As soon as the plants begin to show through, fill in the furrow. This will secure a deep planting without the bad effect of deep covering of the seed at first, and so enable the plant to bloom continuously through the heat of summer. The roots should not be allowed to become too dry. Water applied thoroughly once or twice a week, preferably early in the morning or in the evening, is usually better than light sprinkling more frequently.

SWEET PEAS

321. G. & T. CO.'S FINE MIXED—Consists of the very choicest varieties mixed in the newest colors and shades. Annual. **Ounce 10c, ¼ Pound 25c, ½ Pound 40c, Pound 75c, postpaid.**

322. SUPERB SPENCER MIXTURE—The Spencers have very large waved flowers produced abundantly on long, strong stems, making the blossoms most desirable for cutting. **Ounce 15c, ¼ Pound 50c, Pound $1.50, postpaid.**

323. CUPID, DWARF or BEDDING SWEET PEAS—Annual in mixed colors, with emerald-green foliage, growing about 6 inches high and blooming all summer. **Packet 10c.**

PERENNIAL SWEET PEAS—SEE LATHYRUS LATIFOLIUS
SWEET ROCKET—SEE HESPERIS

SWEET VIOLETS (P)

326. SEMPERFLORENS—A perennial rock garden plant. Deep blue; small flowering. Height about 6 inches. **Packet 10c.**

SWEET WILLIAM—SEE DIANTHUS BARBATUS

THUNBERGIA (Black-eyed Susan) (P)

327. Rapid growing annual climbers. Invaluable for hanging baskets, vases, etc. Height 4 feet. **Packet 10c.**

TRITOMA (Red Hot Poker or Flame Flower) (P)

328—A perennial bedding plant; flowering from August to October, with spikes 3 to 4 feet high, bloom of rich orange-scarlet. **Packet 10c.**

TROLLIUS (Globe Flower) (P)

329. GOLDEN BALL — Hardy perennial, producing large orange flowers. In bloom during May and June. Height 18 inches. **Packet 10c.**

VALERIANA (Garden Heliotrope) (P)

Hardy perennials; resembling Heliotrope. Flowers are large and fragrant. In bloom from June to October. Height 2½ ft.

330. WHITE—Packet 10c, ⅛ Ounce 25c.

331. PINK—Packet 10c, ⅛ Ounce 25c.

VERBENA (A & P)

Popular garden annual, producing brilliantly colored flowers from July until frost. Thrive best in sunny situations and rich soil. Sow seed in house or hotbed and transplant in May. Otherwise sow seed outdoors in May.

334. ANNUAL VARIETIES MIXED—A choice mixture. **Packet 10c, ⅛ Ounce 25c.**

335. VENOSA (Hardy Garden Verbena)—Hardy perennial for rockery and for bedding. A mass of bluish or heliotrope blue flowers blooming until October. Height 1 foot. **Packet 10c, ⅛ Ounce 30c.**

336. VERONICA (Speedwell)—Handsome, erect perennials, growing about 2 feet high, with pretty blue flowers, in bloom from June until August. **Packet 15c.**

VINCA (Madagascar Periwinkle) (A)

An attractive dwarf bedding annual. Glossy, deep green foliage and bright blossoms produced in profusion all summer. Height 1 to 2 feet.

337. ROSEA—Rose with dark eye. **Packet 10c, ⅛ Ounce 25c.**

338. ALBA—White with rose center. **Packet 10c, ⅛ Ounce 25c.**

VIOLA CORNUTA (Tufted Pansies) (P)

Perennials resembling the Pansy. Long-stemmed, with frilled and tuft-like flowers.

339. JERSEY GEM—Dwarf habit; flowers rich violet. Blooms profusely and continuously. 6 in. **Packet 20c.**

WALLFLOWER (HHP)

Half-hardy perennials, producing spikes of beautiful flowers. Very fragrant and early blooming. Height 2 feet. Blooms July and August.

340. DOUBLE EXTRA CHOICE MIXED—Packet 10c.

WILD CUCUMBER VINE—SEE ECHINOCYSTIS
WOOLFLOWER—SEE CELOSIS CHILDSI

ZINNIAS (A)

Brilliantly colored and perhaps the most popular annual in our country. Easy to grow, producing blossoms from summer until frost.

GIANT DAHLIA FLOWERED—Extra large and of a Dahlia flowering type, blooming from July until frost. Splendid for beds and borders, as a mass of varied colors will attract attention everywhere. Height 2½ to 3 feet.

341—GOLD MEDAL MIXTURE—Pkt. 10c, ⅛ Oz. 25c, Oz. $1.25.

342. CANARY BIRD—Canary yellow.

343. CRIMSON MONARCH—Largest of the red shades.

344. DREAM—Deep lavender, turning to purple.

345. EXQUISITE—Light rose, deeper rose center.

346—GOLDEN STATE—Rich orange-yellow in bud, yellow and turning to orange when in full bloom.

347. ILLUMINATION—Deep rose.

348. LEMON BEAUTY—Golden yellow on brown. A decided pastel shade.

349. OLD ROSE—Real old rose shade.

350. ORIOLE—Orange and gold.

351. POLAR BEAR—Large pure white.

352. PURPLE PRINCE—Fine deep purple, large.

353. SCARLET FLAME—Brilliant scarlet.

PACKET 10c EACH, ⅛ OUNCE 35c, ½ OUNCE $1.00.

ZINNIAS

354. ZINNIA, California Giant or Mammoth—These plants grow taller than the Dahlia-flowered, with long stems, and very large flat double flowers. Fine mixed varieties. **Packet 10c, ¼ Ounce 35c, Ounce $1.25.**

355. TALL DOUBLE CURLED AND CRESTED—Fine mixed. **Packet 10c, ¼ Ounce 25c, Ounce 75c.**

LILLIPUT, POMPON OR BABY ZINNIAS

Very popular as a cut flower. Flowers are small, of a compact habit, on long stems.

356. CANARY YELLOW.

357. CRIMSON OR SCARLET GEM.

358. SALMON ROSE.

359. WHITE GEM.

ANY OF THE ABOVE—Packet 10c, ¼ Ounce 30c, Ounce $1.00.

360. FINEST MIXED—Packet 10c, ¼ Ounce 25c, Ounce 85c.

HAAGEANA—Mexican Hybrids (A)

361. Double mixed Pompon variety of special selection, making a valuable border plant; also good for cutting. Annual. **Packet 15c, ⅛ Ounce 30c.**

SANVITALIA (A)

362. Creeping miniature Zinnias, producing double flowers. A superb edging. Annual. **Packet 10c, ⅛ Ounce 25c.**

363. SINGLE MIXED—Packet 10c, ⅛ Ounce 20c.

PICOTEE DELIGHT (A)

364. Flowers medium, petals curled, picotee markings. Annual. Fine mixed. **Packet 10c, ⅛ Ounce 35c.**

PERENNIAL PLANTS

POTTED AND FIELD GROWN

	Potted	F. G.	Approx. Height	Blooming
*Alyssum, Saxatile comp. Yellow	$0.15	—	18 in.	Early
Aquilegia, Elliott's Hyb. mixed	—	$0.25	2 ft.	Late spring
Aquilegia, Elliott's Crimson Star	—	.25	2 ft.	Late spring
*Arabis, Alpine, white	—	.15	8 in.	April & May
*Arabis, Alpine, pink	—	.15	8 in.	April & May
*Armeria, Laucherana, bright rosy-red	.15	—	12 in.	Early & late
Artemisia, Silver King	—	.25	3 ft.	Summer
*Aubretia, large fl. mixed (Rainbow Rock Cress)	.15	—	Dwarf	Spr. & Sum.
Baptisia (False Indigo) Dark Blue	—	.25	2 ft.	June
Bocconia (Plume Poppy) Creamy White	—	.25	6-8 ft.	July & Aug.
*Campanula, Carpatica (Blue Harebell)	.15	—	8 in.	June to Oct.
*Campanula, Carpatica (Blue Harebell)	—	.25	8 in.	June to Oct.
Canterbury Bell, Blue	.15	—	2-4 ft.	June
Canterbury Bell, Pink	.15	—	2-4 ft.	June
*Campanule Rotundifolia (Clear Blue) Blue Bells of Scotland or Hare Bell)	.15	—	10-12 in.	Summer
Carnation, Hardy Mixed Varieties	.15	—	16-20 in.	About June
*Cerastium (Show in Summer)	.15	—	8-10 in.	June
Coreopsis Grandiflora	—	.25	2½ ft.	Summer
Delphinium, Belladonna, Imp.	.15	.25	4-5 ft.	Early Sum.
Delphinium, Bellamosum	—	.25	4-5 ft.	Early Sum.
Delphinium, English Hybrids	.15	.25	4-5 ft.	Early Sum.
Dianthus Barbatus, Newport Pink	.15	—	2-3 ft.	June
Dianthus, Scarlet Beauty	.15	—	20 in.	June
Dianthus, Cheddar Pink	.15	—	8 in.	June
Dianthus Plumarius, Pheasant's Eye	.15	—	20 in.	July
Digitalis (Foxglove) Purple	.15	—	2-3 ft.	July
Digitalis (Foxglove) Pink	.15	—	2-3 ft.	July
Eupatorium (Mist Flower) Ageratum Blue	.15	—	18-24 in.	Aug. & Sep.
Gaillardia, Hybrida	.15	—	3 ft.	Sum. & Fall
*Gypsophila, Repens, white with sml. fl.	—	.25	3 ft.	Summer
*Heuchera (Coral Bells) Coral Red	—	.25	18 in.	Ea'y to late
Hollyhock, Double, Crimson	—	.25	6 ft.	Aug. to Sep.
Hollyhock, Double, Yellow	—	.25	6 ft.	Aug. to Sep.
Hollyhock, Double, Newport Pink	—	.25	6 ft.	Aug. to Sep.
*Iberis, Pink (Candytuft)	.15	—	9 in.	June to Jul.
*Iberis, White	—	.25	9 in.	June to Jul.
Liatris, Pink	—	.25	2 ft.	May to Aug.
Linum, Flax, Blue	.15		2⅔ ft.	July to Sep.
Lupins, Polyphyllus, Clear Blue	.15	—	3 ft.	July
Lupins, Polyphyllus, Pink	.15	—	3 ft.	June to Sep.
*Myosotis, Hardy Forgetmenot for shady border)	.15	—	1 ft.	Sept.
*Nepeta Mussini, small light Violet-blue flowers	.15	—	18 in.	July to Aug.
*Oenothera (Evening Primrose) lg. yellow	.15	—	12 in.	July to Aug.
*Oenothera, Bright Yellow	.15	—	18 in.	July to Aug.
*Oenothera, Pale Yellow	.15	—	12 in.	July to Aug.
Poppy, Orientale	—	.25	2 ft.	Summer
Japanese Spurge (Pachysandia). Trailing, with glossy foliage and small flowers, for sun and shade	.15	.25		May & June
Phlox—R. P. Struthers, Cherry Red; Rheinlander, Salmon Pink; Thor, deep Salmon Pink	.15	—	3 ft.	July to Sep.
Physostegia, Fine Pink (False Dragon Head)	—	.25	3-4 ft.	June to Sep.
Plumbago (Lead-wart) Deep Blue Flowers of dwarf habit	.15	—	6-8 in.	Sum. & Fall
Pyrethrum, assorted	.15	—	2⅔ ft.	Sum. & Fall
Pyrethrum, Kelway Red	.15	—	2⅔ ft.	Sum. & Fall
Salvia, Pitcherii—Blue Meadow Sage	.15	—		
*Sedum, Acte, Dwarf Yellow	—	.25		Summer
*Sedum, Blue	.15	.25		Summer
*Sedum, Yellow	.15	—		Summer
*Sedum, Spreading with Yellow Flowers	—	.25		Summer
*Sedum, Spectabilis, Rose-Colored	.15	—	18 in.	Summer
*Sedum, Coccineum, Rosy-Crimson	.15	—	6 in.	Summer
*Sedum, Stoloniflora (Purplish-Pink)	.15	—	4-6 in.	Summer
*Silene (Catchfly) Pink	.15	—	4-6 in.	Summer
*Thyme, Assorted varieties	.15	—		

*Rock Garden.

NO PERENNIAL PLANTS MAILED.

HARDY POMPON CHRYSANTHEMUMS

Popular for bedding, as the cut flowers are used so extensively. (These offered, are not the large greenhouse varieties.) All subject to being unsold when order is received.

From 2 inch Pots, 15c each, $1.50 per Dozen. Postage, 1 to 5 Plants, 10c extra.

CHRYSANTHEMUMS

LARGE-FLOWERING OR ASTER VARIETIES

BRONZE QUEEN—Even shade of Golden bronze. Dwarf.
CHICAGO PEARL—White Pompon.
CLORINDA—Sprays of Bronze.
CORA PECK BUHL—Deep Yellow Pompon.
ERMALINDA—Old rose with silvery sheen.
FAIRY QUEEN—Deep Enchantress.
JULIA LA GRAVERE—Red, Tall.
LILIAN DOTY—Shell Pink. Upright.
RED DOTY—Wine Red.
UVALDO—Earliest White. On opening, showing a slight shade of pink.
WHITE DIANA—Good White. Tall.

SMALL-FLOWERING OR BUTTON VARIETIES

GOLDEN CLIMAX—Bright Yellow.
GOLDEN CREST—Bright golden yellow pompon.
NORINE—Late flowering. Bright yellow. (Seedling from Christmas Gold, but larger.)

ANEMONE VARIETIES

CHESTNUT—Even shade of tan, harmonizing with red and yellow.
MAPLE LEAF—Shading like a maple leaf, red and yellow. High rounded cushion.

SINGLE VARIETIES

DAZZLER—Red.
MISS ISABELLE—Dark Pink.
MRS. BUCKINGHAM—Large flat flower of rosy pink.

BEGONIAS

ARGENTEO GUTTATA—Branching shining green leaves, thickly dotted with white spots. Flowers in clusters of white tinged pink. (3 inch pot.) **25c each.**
COTALLINE LUCERNE—Bronze green foliage, spotted white. Bright coral red flowers of heavy wax texture. (3 inch pot.) **25c each.**
DREGI—Deeply serrated green leaves, reddish on under side small white flowers.
CHATELAINE SUPREME — Live pure pink.
LUMINOSA—Red flower; foliage turning reddish bronze, when growing in sun.
PRIDE OF NEW CASTLE—Red sport of chatelaine. Dwarf.
PRIMO DONNA—Limped-rose shading to carmine in center.

Price 15c each, $1.50 Dozen
Postage on 1 to 5 Plants, 10c extra.

IVY

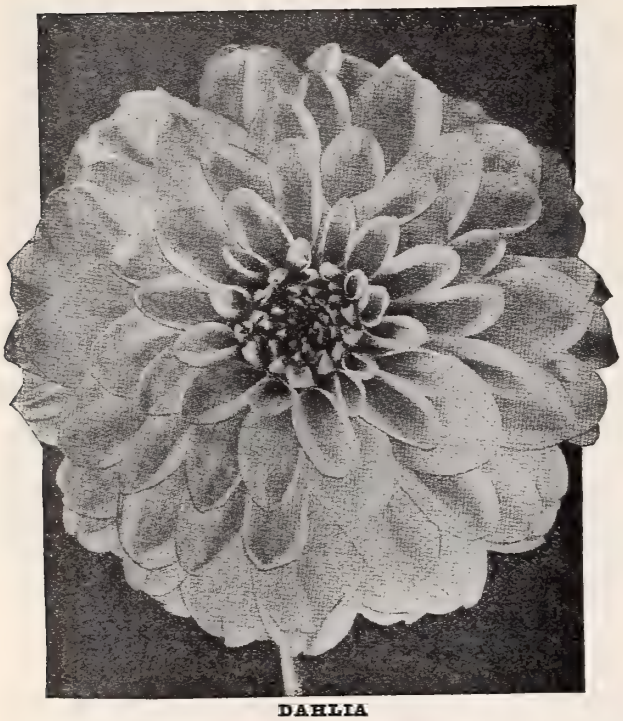
HARDY ENGLISH—15c ea.; $1.50 dozen.
GERMAN OR PARLOR IVY, for window boxes—15c each; $1.50 per dozen.

MOON VINES

NOCTIFLORA—The standard white Moonvine.
LEARI (Blue Dawn Flower)—Generally known as the Blue Moonflower.

Prices, 15c each, $1.50 per Dozen.
Add 10c on 1 to 5 Plants for Postage.

DAHLIA ROOTS AND PLANTS



DAHLIA

DAHLIA CLUMPS

LARGE FIELD CLUMPS

A. C. IDE—(Dec.) Rich velvety maroon. Fine blooms.

A. D. LIVONII—(Show) Rich sea shell pink.

AMBER QUEEN—(Pompon) Rich amber, profuse bloomer.

ATTRACTION—(Cactus) Large flowers of curled or twisted petals; color, soft silvery mauve-rose, with white suffusion.

BALTIMORE—(Dec.) Lemon yellow.

COUNTESS OF LONSDALE—(Cactus) Rich salmon.

EDWARD M. PARRISH—(Dec.) Lavender-mauve flowers, on stiff stems.

GOLDEN WEST—(Dec.) Best yellow, good stems.

JERSEY BEAUTY—(Dec.) Perfect ideal pink flowers, borne on long stems. Free and early bloomer.

MARGUERITE BOUCHON—(Cactus) Brilliant soft rose blooms, with large white center and white tips.

BIG CHIEF—(Century) Brilliant cherry red, margined rich velvety maroon.

MRS. H. C. DRESSELHUYS—(Dec.) Showy pink flowers, on sturdy stems.

MRS. IDE VER WAZNAAR—(Dec.) Clear lilac rose, on strong stems.

PRIDE OF CALIFORNIA—(Dec.) Deep red flowers on long stiff stems.

QUEEN OF YELLOWS—(Show) Pure yellow, quilled petals.

PRICE, 18c EACH, 2 CLUMPS FOR 35c.
POSTAGE 10c EACH EXTRA

GLADYS SHERWOOD—(Dec.) (Hyb. cactus) Large white, deep and full, with good stems.

PATRICK OMARA—(Dec.) Large flowers on long stiff stems. Orange-buff color, slightly tinged neyron rose.

MERRITT—(Dec.) Lemon yellow, on long stems. Profuse bloomer.

MRS. CARL SALBACH—(Dec.) Lilac-rose shading to white at base of petals.

PRICE 25c EACH. POSTAGE 10c EXTRA

DAHLIA PLANTS

We Offer the Following Varieties of Selected Stock Dahlia Plants in 3-inch Pots, for Delivery About May 10th to 15th.

COMMODORE—(Dec.) Huge yellow blooms, with twisted petals.

DOROTHY PERKINS—(Dec.) The outstanding white.

GOOD NIGHT—(Dec.) Darkest Maroon.

JANE COWL—(Dec.) Striking blend of bronze-buff and brilliant gold.

KATHLEEN NORRIS—(Dec.) True rose-pink, deepening to mallow pink, tight center, good bloomer.

MARGARET WOODROW WILSON—Beautiful and immense blooms, of opalescent pink; face of petals creamy-white with phlox-pink reverse.

MINNIE EASTMAN—(Semi-cactus) Bright flame color, with deep yellow undershadings, long stems.

SALEM PRIDE—(Dec.) Reddish-violet, suffused and tipped white. Large blooms.

TREASURE ISLAND—(Dec.) Bright apricot, suffused red and gold shadings. Large blooms.

THOMAS A. EDISON—Royal purple.

W. H. T.—(Dec.) Cerise-rose with tints of mauve on reverse. Long stems.

PRICE 50 CENTS EACH—NO MAIL ORDERS

GERANIUMS

STANDARD VARIETIES

ABBIE SCHAFFER—Semi-double, crimson-scarlet.

ALPHONSA RICARD—Semi-double, vermilion-scarlet.

BEAUTY POINTEVINE—Light salmon color and semi-dwarf habit.

BERTHA DE PRILLY—Silver rose pink, slightly shading to almost white center, semi-double.

EDMOND BLANC—Beautiful cerise, and bright carmine shaded around white eye. Upper petals bright scarlet, deep green foliage.

LA FAVORITE—Finest double white.

JEAN OBERLE—Peach pink, shading to almost pure white on outer edge of each petal.

MRS. LAWRENCE—A splendid pot plant. Satiny salmon-pink, slightly tinged white.

S. A. NUTT—Dark Red. One of the best bedders.

SCARLET BEDDER—Dwarf. Semi-double, dark fiery red flower.

SINGLE VARIETIES

MAXIME KOVALESKI — Orange shade of Lincoln red. Splendid bedder.

MRS. E. G. HILL—Soft salmon. Semi-dwarf and continual bloomer.

SNOWDROP—Pure white flowers. Splendid for bedding.

IVY-LEAVED

COUNTESS DE GREY—Satiny salmon with glossy green foliage.

PIERRE CROZY — Bright scarlet. Ideal for pots or bedding.

RYCROFT SURPRISE—Clear rose. One of the best.

PRICE 15c EACH, $1.50 PER DOZEN.

POSTAGE ON 1 TO 5 PLANTS, 10c EXTRA.

SUMMER-FLOWERING BULBS

GLADIOLUS

"Super-Glads"

FOR GARDEN AND EXHIBITION PURPOSES

6c each, 65c Dozen, $4.00 per 100. Add 10c Dozen for Postage

Gladiolus are the most attractive and useful for cut flowers of all the summer flowering bulbs.

Plantings each ten days from April to mid-June, will provide flowers from August to October.

CARMEN SYLVA—Pure White. Splendid for garden and cut flowers.

DR. F. E. BENNETT—Peach red with suggestion of flame scarlet. Throat creamy-white, speckled ruby red. Huge flowers.

GOLD EAGLE—Extra early. Deep rich yellow, slightly ruffled petals, borne on long stems.

HENRY FORD—Royal Rhodamine purple, shading deeper towards center. Huge flowers.

LOS ANGELES—Bright Pink.

MRS. H. E. BOTHKIN—A ruffled type, with color of soft-salmon pink, with fine scarlet blotch, tempered by the ground color.

MRS. LEON DOUGLAS—Begonia rose with flecks of flame scarlet. Lower petal tinted lemon with specks of ruby red.

ROSE ASH—A subdued rose red overlaid with grey, producing a hue called "Ashes of Roses." Shaded yellow in throat, with ruby red speckles.

ORANGE QUEEN—Newest and finest Gladiolii. Color true orange.

Select Gladiolus

4c each, 45c Dozen, $3.25 per 100. Postage 10c Dozen Extra.

AMERICA—The color is a very beautiful soft pink.

BLUE JAY—Porcelain blue.

CRIMSON GLOW—Crimson. Tall grower. Eight to ten flowers.

EVELYN KIRKLAND—Color, salmon-pink. Tall grower, with eight to ten flowers on a stalk. 100 per cent Gladiolii.

GRETCHEN ZANG—Soft shade of pink, blending into scarlet on lower petals. Large heavy blooms.

HALLEY—Predominating color, delicate salmon pink, with slight roseate tinge, though the lower petals bear a creamy blotch with a stripe of bright red through the center.

LOUISE—Lavender.

LILY WHITE—Pure white and very early forcer.

MAIDEN'S BLUSH—Earliest flowering; apricot pink.

MRS. FRANCIS KING—Long, strong stalks bearing flowers of vermillion-scarlet color.

MRS. DR. NORTON—Pure, soft white, with tips of petals suffused La France Pink.

PANAMA—True rose-pink. Large flowering.

PEACE—Immense, pure white flowers, with touch of carmine in lower petals. These are borne on tall, graceful spikes; a beautiful variety.

ROSE, 1910—Early. Rose color, with white vein through center of petal.

SHAYLOR—Pure deep pink. Large flowers on tall stems.

SCHWABEN—Clear canary yellow, shading to soft sulphur. Largest of flowering stalks and leaves of all. Planted 7 or 8 inches apart in rich soil produces wonderful blooms.

SWEET LAVENDER—Lavender shadings. Early.

WILBRINK—A favorite forcing variety for cutting. Early-flowering, color delicate pink.

MRS. P. PENDLETON—Bright rose with crimson scarlet blotches on lower petals. Good for forcing.

EXTRA FINE MIXTURE—40c Dozen, $2.50 per 100.

CANNA ROOTS OF THE FOLLOWING VARIETIES

AUSTRIA—Large golden yellow, 5 feet.

FLORENCE VAUGHAN—Yellow spotted scarlet, 5 feet.

GOLDEN GATE—Orange yellow, with reddish throat, 4 feet.

INDIANA—Glistening orange, marred and striped red, 4 feet.

KATE GRAY—Large orange-scarlet. Green foliage. Tall.

KING HUMBERT—Orange-scarlet, with bronze foliage, 4 feet.

KING HUMBERT—Golden yellow, dotted red. Green foliage, 4 feet.

PENNSYLVANIA—Pure deep scarlet flowers of the Orchid type, 6 feet.

PRESIDENT—Brilliant red, with green foliage, 4 feet.

RUBIN—Bright scarlet flowers. Dark foliage, 4 feet.

SHENANDOAH—Broad chocolate foliage, with bronzy-metallic lustre. Flowers are large of pretty shade of pink, 4 to 5 feet.

UNCLE SAM—Deep orange flowers. Rich green foliage, 6 feet.

VENUS—Gay rosy-pink with border of creamy yellow. Green foliage, 4 feet.

WYOMING—Orange scarlet flowers. Dark foliage, 4½ feet.

PRICES: 5c EACH, 50c PER DOZEN, $3.50 PER 100

Postage, 10 cents per Dozen, Extra

GLADIOLUS

TUBEROSES

One of the most fragrant and popular of the summer flowering bulbs. May be started early in hot-beds or pots, or planted in open ground after the first of May.

EXCELSIOR PEARL — Double white; dwarf. **Each 3c, dozen 35c, per 100, $2.75.** If by mail, **add, dozen, 10c.**

CALADIUMS—Elephant Ears

The Caladium Esculentum is one of the handsomest of the ornamental - leaved plants. It will grow in any good garden soil.

FIRST SIZE BULBS (7 to 9 inches)—**Each 5c, dozen 50c.**

LARGE BULBS (9 to 11 inches)—**Each 8c, dozen 90c.**

EXTRA LARGE BULBS (11 to 12 inches)—**Each 10c, dozen $1.00.**

If by mail, add, single bulbs 5c, dozen 15c.

PLANTS--ROOTS--TREES

STRAWBERRY PLANTS

Early spring, about March or April, is the most logical time (for Maryland) to transplant strawberry plants. They will grow in light sandy soil and heavy clay soil, responding readily to fertile and well-drained soils. Give plenty of moisture when fruiting.

Stable or barnyard manure will help to give them best results. When plants arrive, if dry, dip in water, allowing to "plump up," before setting out. Plant in rows, 3½ to 4 feet apart with plants set 15 to 24 inches apart in the row. In winter cover with straw, and in early spring remove from plants and allow it to remain on ground as a mulch.

We offer the following best and standard varieties:

DORSETT **FAIRFAX**
(Early Varieties)

These two are new and both known for their vigor and productiveness.

DORSETT is medium light in color and retains its lightness.
FAIRFAX is medium dark, turning darker, almost to purple before wilting.

Per 50—$1.00; Per 100—$1.65.

PREMIER. Early. One of the best for any soil.
BIG JOE. Mid-season. Large and vigorous.
CHESAPEAKE. Late. Especially good for home and market.

Per 50—75 cents; Per 100—$1.25.

MASTODON. Everbearing. Supreme among the Everbearing berries.

Per 50—80 cents; per 100—$1.50.
Add 10 cents per 100 for postage.

ASPARAGUS ROOTS

	Per 100	Per 1,000
MARY WASHINGTON (Rust-proof)	$1.25	$10.00

Postage per 100, 10c extra.

RHUBARB ROOTS

15c Each. Dozen, $1.50. Postage 10c extra on 1 to 3 roots.

BLACKBERRIES

ELDORADO **SNYDER** (Very hardy)

Price, 15c each; $1.00 per doz. If by mail add 10c each.

CURRANTS

FAY'S PROLIFIC

Price, 40c each; $4.00 per doz. If by mail add 10c.

RASPBERRIES

ST. REGIS—(Red.) Everbearing.
CUMBERLAND—(Black.)
LATHAM—(Red.)
Price, 15c each; $1.00 per doz. If by mail add 10c each.

FRUIT TREES—(2 Years Old)

APPLES—75c. each.
Yellow Transparent—July.
Gravenstein—September to October.
Summer Rambo — September to October.
Stayman's Winesap—Winter.
Red Delicious—Fall.
Grimes Golden—Fall.
Jonathan—Fall.
York Imperial—Winter.

CRABAPPLES(Hyslop)—90c. each.

CHERRY—Leading varieties $1.00 each.

PEARS—$1.00 each.
Bartlett—Summer.
Kieffer—Winter.
Seckel—Autumn.

PEACHES—60c each.
Elberta — Yellow freestone.
Georgia Belle — White Freestone.
J. H. Hale—Yellow freestone.

PLUMS and SHROPSHIRE DAMSON—70c. each.

QUINCE—85c. each.

GRAPES—(2 Years Old)

CONCORD (Blue) **NIAGARA** (White) **CACO** (Wine Red)
Price, 30c. each. If by mail add 10c.

SHRUBBERY

Althea. (Double) Red. White. Purple. 50 cents each (2 yr.)
Barberry Thunbergia. 15 to 18 in. 10 for $1.50—25 for $2.50 (2 yr.).
Barberry Thunbergia, Minor (Box or Dwarf). 12 to 15 in. 35 cents each, 6 for $2.00.
Barberry Red Leaf. Bushy plants. 12 to 15 in. 25 cents each, 10 for $2.25.
Butterfly Bush. Medium size. 2 yr. 35 cents each.
Calycanthus (Sweet Shrub). 18 to 24 in. 50 cents each.
Japanese Quince. 12 to 18 in. 50 cents each.
Hydrangea Paniculata Grandiflora. 18 to 24 in. 75 cents each.
Lilacs. Various shades of the French (Semi-dwarf) variety. 18 to 24 in. 60 cents each.
Peach (Flowering). 2 to 3 ft. 75 cents each.
Snowball Bush. 18 to 24 in. 35 cents each.
Snowberry, White. 18 to 24 in. 50 cents each.
Snowberry, Red. 18 to 24 in. 50 cents each.
Privet Hedge (California). 2 yr. old. 18 to 24 in. 10 for 75 cents. $5.00 per 100.

HARDY VINES

Clematis, Jackmani. Rich Purple. $1.00 each.
Clematis White. $1.00 each.
Hardy English Ivy (rooted). 2 yr. 35 cents each.
Dutchman's Pipe. 2 yr. 75 cents each.
Wisteria. Purple. 2 yr. 50 cents each.
Wisteria, Sinensis. Violet-Blue perfumed blooms. 60 cts. each.
For any other varieties ask for prices.

FROST-PROOF CABBAGE PLANTS

WILL MATURE HEADS TWO TO THREE WEEKS EARLIER THAN YOUR HOME-GROWN PLANTS.

Ready December 1st to May 1st

EARLIER JERSEY WAKEFIELD, CHARLESTON WAKEFIELD, SUCCESSION, and EARLY FLAT DUTCH. (COPENHAGEN MARKET ready about April 1st.)

These plants are grown in the open field during the fall and winter months, which causes them to make a slow, tough, hardy growth—so hardy that the outer leaves turn to a reddish brown. They can be shipped to distant points without danger of spoiling, and should be planted in the open ground from four to five weeks earlier than frame plants.

They will stand a temperature of 10 to 15 degrees above zero without injury. Will do very much better planted early, as they will take root and start to grow as soon as warm weather sets in.

Orders filled from December 1st until May 1st. We do not advise planting later than this time.

Prices by Parcel Post, postage paid. In lots of 100 to 300 plants, **40c.** per 100 plants; 500 plants for **$1.50;** 1,000 or more at **$2.25** per 1,000 plants.

Orders are filled by the 100, not 250 or 350. These prices are for even quantities of one variety to package; if you order 200 of one variety and 300 of another variety you would pay at the 100 rate.

Prices by Express, buyer paying express charges. In lots of 1,000 to 4,000 plants at **$1.25** per 1,000; 5,000 or more at **$1.00** per 1,000. Plants packed for express shipment, 1,000 or 2,000 plants of a variety to package, they weigh about 25 pounds per thousand plants, packed for shipment.

TERMS, CASH WITH ORDER, PLEASE
No Plants Shipped C. O. D.

GERMACO HOTKAPS

Besides protecting the plant from the elements and from insects, "Hotkaps" are worth their cost alone because they aid in maturing crops earlier. That is the all-important thing to the grower, FOR IT MEANS THAT HE CAN BE FIRST TO MARKET AND SO COMMAND A BETTER PRICE FOR HIS CROP. Thus "Hotkaps" far more than pay for themselves. They represent one of the best investments a farmer can make. Thousands have proved it; thousands more are discovering it every season.

Prices

100 Hotkaps and Garden Setter, pkg.	$2.40
250 Hotkaps and Garden Setter and Tamper, pkg.	3.65
1,000 Hotkaps, only, per M	10.00
5,000 Hotkaps, only, per M	9.85
10,000 Hotkaps, only, per M	9.75
Steel Hotkap Setter and Tamper, set	2.25
Garden Setter (paper), each	.50
Steel Tamper, each	.25

GATOR-HIDE MULCH PAPER

Gator-Hide Mulch Paper is one of the toughest, strongest, most durable papers made. It is impregnated by a special process with a particular grade of asphaltum which has no harmful effect on soil or plant life.

Unrolled over the proposed plant beds, and anchored by soil or other available material along the edges, Gator-Hide Mulch Paper imprisons all the moisture in the soil. Its black surface catches and retains the sun's heat. This raises the soil's temperature, prevents cooling at night, and promotes continuous bacterial activity, liberating night and day nitrous food matter for the plant, producing bigger, better, and earlier crops.

Planting is done through holes made in the paper, or in the space between two strips of paper rolled out close together. Thus while ample space is provided for the plant, no space is left for weeds, and the nourishment they ordinarily steal from the soil is conserved for the crops you plant.

Type A—18-in. width—300 linear yards to the roll	$3.00
36-in. width—300 linear yards to the roll	6.00
Type B—18-in. width—150 linear yards to the roll	3.00
36-in. width—150 linear yards to the roll	6.00
Garden Package	.65

QUALITY SEEDS FOR THE CRITICAL GROWER

ARTICHOKE

GREEN GLOBE—Sow seed in March or April and protect from frost. Set in open in rows, four feet apart and two feet in rows. Has deep green foliage with globe-shaped edible buds. **Packet 10c; Ounce 50c; 2 Ounces 90c; ¼ Pound $1.50.**

ASPARAGUS

This is one of the earliest spring vegetables, and should be in universal use. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four or five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row.

PEDIGREE MARY WASHINGTON ASPARAGUS—Rust Resistant. This variety is the result of careful breeding by the U. S. Department of Agriculture, with the object of eliminating rust. A dark green color The best of all Asparagus. **Packet 10c; Ounce 20c; ¼ Pound 50c; Pound $1.25.**

ASPARAGUS ROOTS—A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 8,000 roots will plant an acre. Select good loamy soil, plow deep, put in good quantity of manure and 100 pounds kainit to 1.000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants 15 inches apart. In field culture rows are placed four feet apart. **Per 100, $1.25; Per 1,000, $10.00. (Postage Extra.)**

BEANS

Dwarf or Bush-Wax Podded

Select light, warm soil and plant when danger from frost is past in the spring, in drills 2 to 2½ feet apart, dropping the beans about 6 to 8 inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August.

IMPROVED RUSTPROOF GOLDEN WAX

This is the handsomest and hardiest of all the Wax Beans. The Pods are straight, long and thicker than the ordinary Golden Wax, much superior in quality, absolutely rustproof, and sure to become a favorite Wax Bean; in fact it has already gained great popularity with growers.

SURE CROP STRINGLESS WAX

Recently introduced by the largest bean grower and originator of new varieties in this country. Entirely stringless, black-seeded, thick, flat yellow pods. The most desirable sort for canning.

DWARF PROLIFIC BLACK WAX

Yellow pod, a very superior snap sort, ripening among the first earlies and having the best characteristics. Very tender.

CURRIE'S RUSTPROOF BLACK WAX

For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods long, straight, flat and ever meaty, of a beautiful color; quality not surpassed, and for productiveness it is unequaled.

NEW PENCIL POD WAX BEAN

Very early and productive. Pods long, straight and handsome; color, light golden yellow; strong and vigorous bush. One of the best varieties.

SURE CROP WAX

WAX POD BUSH BEANS	(About)	(1 pt.)	(1 qt.)	(1 pk.)
	Beans by Weight	1 lb.	2 lbs.	15 lbs.
IMPROVED RUSTPROOF GOLDEN WAX		$0.20	$0.35	$2.00
SURECROP STRINGLESS WAX		.20	.30	1.75
DWARF PROLIFIC BLACK WAX		.20	.30	1.75
CURRIE'S RUSTPROOF BLACK WAX		.20	.30	1.75
NEW PENCIL POD WAX		.20	.35	2.00

Add for postage, 8c per lb., 10c for 2 lbs.

Ask for prices per Bushel. **Ask for prices in Quantity.**

ASK FOR PRICES ON BEANS BY THE BUSHEL

BURPEE'S STRINGLESS GREEN POD BEANS

BEANS—Green

ASGROW STRINGLESS BLACK VALENTINE BEANS.—Practically as early as the old time Black Valentine, without strings. Stringless. Beautiful, round early pods. Fine for early market.

G. & T. CO.'S EXTRA EARLY RED VALENTINE.—Ten days earlier than the ordinary Red Valentine Bean. It is without doubt the very best earliest green snap short Bean.

BLACK VALENTINE.—The old standby. Has beautiful long round dark green pods. Fine for shipping and early and late planting.

EXTRA EARLY BOUNTIFUL (Flat Green Pod).—A prolific and continuous bearer. The first in the spring, the last in the fall. Absolutely stringless, very tender and of delicious flavor.

EXTRA EARLY REFUGEE.—It is similar in every respect to the ordinary Refugee, but is nearly two weeks earlier.

REFUGEE or 1000 TO 1.—A medium to late variety, very productive and largely grown for pickling; handsome and tender pods.

FULL MEASURE (New).—Large cropper; stringless, green-podded, round Bean, not as early as Burpee's Stringless, but a heavy yielder. Best of quality.

BURPEE'S NEW STRINGLESS GREEN POD.—One of the earliest varieties, pods round and full, absolutely stringless and of beautiful fleshy appearance; quality excellent. The only green pod bean of which the pods never develop any strings.

GIANT STRINGLESS GREEN POD.—Resembles very much the old Valentine. The plants are of strong growth, very productive; pods 5 inches long, light green, slightly curved, very meaty, brittle and stringless at all stages, and of mild flavor.

ASGROW NEW STRINGLESS GREEN POD BEANS.—Beautiful, long dark green pods, nearly round and stringless. Is very productive, hardy and a sure cropper.

DWARF HORTICULTURAL (Cherry).—Very green podded sort, used as a shell bean, and for this purpose is one of the finest in general use; long a favorite with those who use a shell bean in a green state.

WHITE MARROWFAT.—Extensively grown for sale as a dry bean for winter use.

WHITE NAVY, or SMALL PEA BEAN.—A well-known variety for field culture; very prolific.

Pole or Running

LAZY WIFE.—Large, pale green pods, very thick meated, stringless, rich, tender and buttery; ripens early; clings well to pole; enormously productive; splendid either as a snap or shell bean.

KENTUCKY WONDER, or OLD HOMESTEAD.—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 to 10 inches in length; nearly round when young, and very crisp.

SPECKLED HORTICULTURAL, or WREN'S EGG.—An old favorite for both snap-shorts and dry beans.

BUSH LIMA BEANS

Plant in drills two to three feet apart, dropping the beans three to four inches apart and covering one and one-half to two inches deep. If planted in hills, make the hills two or three feet apart one way and two to two and one-half feet the other, and plant four beans in a hill. Hoe often but only when the leaves are dry.

FORDHOOK BUSH LIMA.—An improved dwarf Lima of the Kumerle type. The plant is vigorous and erect growing, bearing well above the ground. The pods are produced in large clusters, each containing three to five large beans of exceptionally fine quality. Much more productive than Kumerle and matures earlier. We consider this a decidcided acquisition to the dwarf Lima, possibly the best of the class.

FORDHOOK BUSH LIMA

BURPEE'S IMPROVED BUSH LIMA.—Will outyield Burpee's Bush Lima by fully one-third. This greater yield is due to the increased size of both pod and beans. The dried beans are very handsome, and generally show a greenish-white coloring, while dried beans of the Burpee Bush Lima, like those of the Large Pole Lima, are pure white.

BURPEE'S BUSH LIMA.—Bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush 2 to 3 feet in diameter; an immense yielder, each bush bearing 50 to 200 handsome, large pods, well filled.

DREER'S BUSH LIMA.—Dwarf variety of Dreer's Improved Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima.

HENDERSON BUSH LIMA.—These are very valuable, because they do not need poles, and, being so dwarf, can be planted close together. They are very early and prolific, continuing to bear until frost.

BEANS—Green-Podded Bush (about) Beans by Weight	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.
G. & T. CO.'S EXTRA EARLY RED VALENTINE	$0.20	$0.35	$2.00
ASGROW BLACK VALENTINE STRINGLESS BEANS	.20	.35	2.00
BLACK VALENTINE	.20	.30	1.50
EXTRA EARLY BOUNTIFUL	.20	.35	2.00
EXTRA EARLY REFUGEE	.20	.35	1.75
REFUGEE or THOUSAND TO ONE	.20	.35	1.75
ASGROW NEW STRINGLESS GREEN-POD	.20	.35	2.00
FULL MEASURE	.20	.35	1.75
BURPEE'S NEW STRINGL'S GR.-POD	.20	.35	1.75
GIANT STRINGLESS GREEN-POD	.20	.35	1.75
DWARF HORTICULTURAL	.20	.35	1.75
WHITE MARROWFAT	.15	.30	1.75
WHITE NAVY	.15	.25	1.50

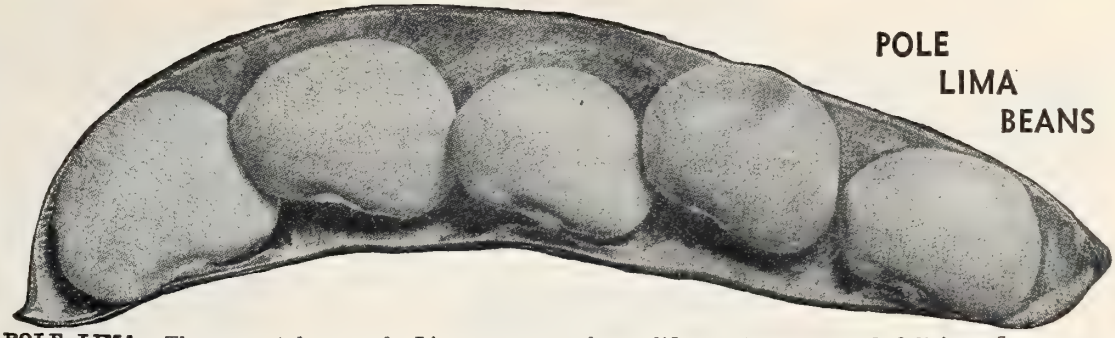
Ask for prices by the Bushel

BEANS—Pole or Running (about) Beans by Weight	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.
LAZY WIFE	$0.20	$0.35	$2.00
KENTUCKY WONDER	.20	.35	2.00
SPECKLED HORTICULTURAL POLE or WREN'S EGG	.20	.30	2.00
BEANS—Bush Lima			
FORDHOOK BUSH LIMA	.25	.50	3.50
BURPEE'S IMP. BUSH LIMA	.25	.45	3.00
BURPEE'S BUSH LIMA	.20	.40	2.75
DREER'S BUSH LIMA	.20	.40	2.75
HENDERSON'S BUSH	.20	.40	2.50

Add for postage, 8c per lb., 10c for 2 lbs.

Ask for prices in Quantity

Set the poles 3 to 4 feet apart and plant 6 to 8 beans, with the eyes downward, around each pole thinning to 4 healthy plants when they are up. They require the same soil and treatment as the dwarf varieties.



POLE LIMA BEANS

CARPENTERIA POLE LIMA.—The newest large pole Lima; enormously prolific; early green and delicious flavor.

HENDERSON'S EARLY LEVIATHAN.—This is the very earliest. It will not only give large Lima beans **earlier** than any other strain, but it is also **much more productive,** both early and throughout the season. It is a strong grower, clinging well to the poles, and is a sure cropper. The pods hang out from the foliage in large clusters and contain three or four and sometimes five large beans to the pod.

KING OF THE GARDEN LIMA.—This bean has met with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the ordinary Lima, bearing pods 5 to 7 inches long, in clusters of 4 and 5, with 5 or 6 beans in a pod.

EXTRA LARGE WHITE LIMA.—This is a splendid sort, and takes a leading place with growers, because of its many excellent qualities. As a shell bean surpasses all in quality and is the favorite with most people.

EXTRA EARLY JERSEY LIMA.—This variety is two weeks earlier than other sorts; the pods are large and numerous, making it a very profitable sort to grow.

DREER'S IMPROVED OR CHALLENGE POLE BEAN.—This popular bean is considered by many growers superior to all others in quality and productiveness. When green it is as large as the Large Lima, thicker, sweeter and more tender and nutritious, remaining green in the pod for a long time after maturing.

CAROLINA OR SIEVA.—A seedling variety of large White Lima, with small pods, usually about 2 inches long. A little earlier and hardier.

CROSBY'S IMPROVED EGYPTIAN

BEANS (about)	1 lb. Pt.	2 lbs. Qt.	14 lbs. Pk.
CARPENTERIA POLE LIMA	$0.20	$0.40	$2.25
HENDERSON'S EARLY LEVIATHAN, LIMA	.20	.40	2.25
KING OF THE GARDEN LIMA	.20	.40	2.25
EXTRA LARGE LIMA	.20	.40	2.25
EXTRA EARLY JERSEY LIMA	.20	.40	2.25
DREER'S IMP. or CHALLENGER POLE LIMA	.30	.50	3.00
CAROLINA or SIEVA POLE LIMA	.20	.40	2.50

BEETS

One Ounce of Seed will sow One Hundred Feet of Drill

Select a deep, rich sandy loam and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, 14 to 16 inches apart, and cover 1 inch deep. When the young plants appear, thin to 4 or 5 inches apart. For early use, sow as soon as the ground can be worked in the spring; for autumn use, about the middle of May; and for winter use, during June or July, according to the variety—the long varieties requiring more time to mature than the round early kinds.

ECLIPSE BEET.—This extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape. As an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table.

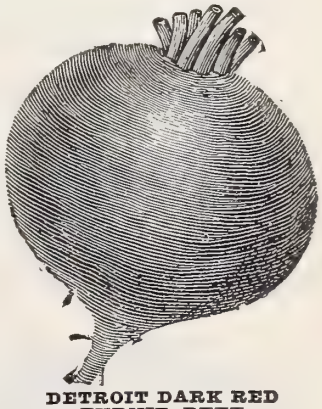
CROSBY'S IMPROVED EGYPTIAN BEET.—A very superior strain of the well-known Egyptian, carefully selected, blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not so round as the Eclipse, or quite so flat as the ordinary Egyptian. It may be sown outside as late as July.

EARLY WONDER BEET.—This grand new Beet, recently introduced, is early, Red with short tops, fine for bunching. Roots are of good, uniform size, slightly oval, and of deep blood red, has slim tap roots, fine grain, tender and sweet. Never gets stringy or woody. Fine for both home use and market garden.

EXTRA EARLY EGYPTIAN.—This is a flat Beet, very early and deep red color. Owing to the small top it can be planted very close.

G. & T. CO.'S EARLY BLOOD TURNIP BEETS.—This is our **Special Stock** of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Baltimore and other places prefer. It is of dark red color, handsome shape, and early.

DETROIT DARK RED TURNIP BEET.—This is one of the finest formed and handsomest colored Beets on the market. It is unsurpassed in the uniformity and beauty of the crop. It is exceedingly early, and produces more marketable specimens on the same acreage than any other variety.



DETROIT DARK RED TURNIP BEET

SWISS CHARD

SWISS CHARD (Sea Kale or Spinach Beet).—Used exclusively for greens; cooked like asparagus, makes a very delicious dish.

BEETS	Pkt.	Oz.	¼ lb.	1 lb.
CROSBY'S IMPROVED EGYPTIAN	$0.10	$0.15	$0.25	$0.75
EARLY WONDER	.10	.15	.25	.75
DETROIT DARK RED	.10	.15	.25	.75
ECLIPSE	.10	.15	.25	.75
EXTRA EARLY EGYPTIAN FLAT	.10	.15	.25	.75
BLOOD TURNIP, G. & T. CO.'S	.10	.15	.25	.75
SWISS CHARD	.10	.15	.25	.75

Add for postage, 8c per lb., 10c per 2 lbs. **Ask for prices in Quantity.**

BEETS FOR STOCK—(Mangel Wurzel)

SOW 4 POUNDS TO THE ACRE

Stock Beets grow larger than any other Beets, and hence require more room. They should be sown from April to June, in drills 2½ feet apart, and the plants thinned to 12 to 15 inches in the row. The attention of farmers to the growing of Beets for stock feeding has rapidly increased.

LONG RED MANGEL—The well-known, large, long variety, grows well out of ground. Color light red. Very productive. **Packet 10c, ¼ Pound 15c; Pound 40c.**

GOLDEN TANKARD MANGEL—The best type of Mangel—small top, smooth, rich skin, broad shoulders, very solid fleshed, golden stemmed, heavy producer. **Packet 10c, ¼ Pound 15c, Pound 40c.**

WHITE SUGAR BEET—A large-growing sort, and used for feeding stock. **Packet 10c, ¼ Pound 15c, Pound 40c.**

CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGEL—One of the very finest Mangels ever introduced, giving unbounded satisfaction wherever grown. With good cultivation will crop at the rate of 200 bushels per acre. **Packet 10c, ¼ Pound 15c, Pound 40c.**

BRUSSELS SPROUTS

1 Ounce of Seed to 100 Yards of Row.

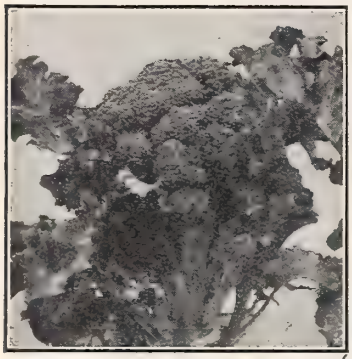
Brussels Sprouts are used in the fall and early winter and by some considered more tender and delicious than any cabbage. The plant resembles the cabbage, the edible part being the numerous very small heads or sprouts an inch or two in diameter formed on the stalk at each leaf joint. The culture is the same in all essentials as for cabbage, except the leaves should be broken down in the fall to give the little heads more room to grow.

PARIS HALF DWARF—Packet 10c, Ounce 25c, ¼ Pound 75c, Pound $2.50.

Brussels Sprouts

BORECOLE

BORECOLE—This is often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit and beautifully curled. Seed should be sown in May and transplanted in July, in the open field, and treated same as Savoy Cabbage. **Packet 10c, Ounce 20c, ¼ Pound 50c, Pound $1.50.** **(See Page 26 for Kale or Borecole.)**



BROCCOLI (Italian Calabrese)

BROCCOLI

GREEN SPROUTING BROCCOLI—ITALIAN CALABRESE. This variety produces small heads on the order of Cauliflower and is the latest and newest kind yet introduced. See Cut.

Sow seed in open ground and get plants in field in July or August. After the center head is cut, it will produce side shoots with a smaller head. One of the best on account of the succulent Asparagus flavor. **Packet 10c, Ounce 50c, ¼ Pound $1.25, Pound, $4.00.**

SPROUTING BROCCOLI—Used largely in the Delaware, Maryland and Virginia Peninsula for northern shipment. Makes fine greens. Sow about August first for fall cutting. **Packet 10c, Ounce 15c, ¼ Pound 35c, Pound $1.25.**

BROCCOLI. LARGE EARLY WHITE—Heads white, like cauliflower. The heads resemble somewhat a coarse cauliflower, and the culture is the same as for that vegetable. Broccoli is well adapted only to those sections where the season is long, cool and rather moist. One of the most valuable features is that it withstands greater extremes of temperature than cauliflower. **Packet 10c, Ounce 50c.**

G. & T. CO.'S LARGE GILT EDGE SNOWBALL CAULIFLOWER

Is without exception one of the finest sorts now in cultivation. It is very early. Nearly every plant will, under proper cultivation, form a perfect, snow-white head and its close growing, compact habit enables the grower to plant one-third more on the same space of ground than other varieties. **Packet 25c, Ounce $1.50, ¼ Pound $5.00.**

EXTRA EARLY SNOWBALL—Our stock of this well-known variety is unexcelled. It is one of the best sorts for open ground or forcing under glass. **Packet 25c, Ounce $1.50, ¼ Pound $5.00.**

G. & T. CO.'S "DROUTH-RESISTING"—Produces larger, white, solid heads, maturing about a week later than our large Gilt Edge Snowball. The best for hot, dry weather. **Packet 25c, Ounce $1.50, ¼ Pound $5.00.**

G. & T. CO.'S SELECT EARLY DWARF ERFURT—Long the standard of highest excellence, and still holding its own with a great many people. **Packet 25c, Ounce $1.50, ¼ Pound $5.00.**

CULTURE—The same as for Cabbage, except that extra manure and plenty of water will pay upon cauliflower.

CAULIFLOWER

CORN SALAD

Three Ounces of Seed to 100 Feet of Row.

A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter; it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach. **Packet 10c, Ounce 15c, ¼ Pound 35c, Pound $1.25.**

CRESS

AMERICAN UPLAND CRESS—Sow in August in drills 18 inches apart to get a spring crop. Used largely for salads. **Packet 10c, Ounce 15c, ¼ Pound 35c, Pound $1.25.**

WATER CRESS—Water cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets. **Packet 10c, Ounce 30c, ¼ Pound 75c, Pound $2.50.**

CURLED or PEPPER GRASS

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season. **Packet 10c, Ounce 15c, ¼ Pound 25c, Pound 75c.**

SELECT EARLY JERSEY WAKEFIELD

COPENHAGEN MARKET CABBAGE

PREMIUM LARGE FLAT DUTCH—LATE CABBAGE

EARLY CABBAGE

One Ounce of Seed to 100 Feet of Row.

Cabbage will thrive on any good corn land, though the stronger the soil the better they will develop. Plow deep and manure very liberally, as cabbage is a strong feeder, and will repay for the care bestowed upon it. The early sorts bear planting from eighteen inches to three feet apart in the rows, with the rows from two to two and a half feet apart. The distance varying with the size. For early use sow in a hotbed in February or March. In April the plants may be set out in the rows. For late crop, sow in May or June, and transplant as soon as the plants are five or six inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.

EXTRA EARLY JERSEY WAKEFIELD—Identical to the Jersey Wakefield, but smaller and about a week earlier.

EXTRA EARLY EXPRESS—Heads are comparatively thicker and less pointed than Jersey Wakefield and slightly earlier.

SELECT EARLY JERSEY WAKEFIELD—American Grown—The very best early Cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and having but few outside leaves, the plants can be set close together. We secured our seed from a grower of the best Wakefield Cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each year.

CHARLESTON, OR LARGE WAKEFIELD—Has all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wakefield. The heads are fully one-half larger and quite solid. It is very compact in growth, and can be easily planted in rows two feet apart and twenty inches in rows.

COPENHAGEN MARKET—A new round head, solid cabbage, recently introduced from Denmark. It is without doubt the finest large round-headed early cabbage in cultivation. The type is thoroughly fixed and the heads mature uniformly, which enables the crop to be harvested at one time, so that the ground can be cleared in two cuttings. As early as Jersey Wakefield.

GOLDEN ACRE—A new round extra early variety. Earlier than Jersey Wakefield.

Second Early Varieties

ALL-HEAD EARLY—AMERICAN GROWN—is the largest of all early Cabbages, fully one-third larger than the Early Summer. It is the nearest approach to a thoroughbred cabbage of any variety, both in size and uniform development. As the All-Head comes in quicker than any of the other flat cabbages, it is consequently more tender. It is also valuable for a late or winter Cabbage.

SUCCESSION CABBAGE—A fine early variety, coming in a few days later than Early Summer, it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted.

SUREHEAD—This popular cabbage is rightfully named Surehead, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets.

EARLY DWARF FLAT DUTCH—An old standard variety which stands the sun and produces fine, large heads, coming in soon after the Wakefield.

BOSS FLAT DUTCH CABBAGE—The heads are large, hard, thick and flat, the leaves lapping across the center, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality.

RED DUTCH CABBAGE—The head is round, large, solid and a deep red color, the best of the red cabbages.

DANISH BALL HEAD—This most excellent variety of cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in Philadelphia, New York, and Boston markets.

PREMIUM LARGE FLAT DUTCH—LATE CABBAGE—Large and excellent for winter; very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf stem.

CABBAGE	Pkt.	Oz.	¼ lb.	1 lb.
Select Early Jersey Wakefield	$0.10	$0.20	$0.75	$1.75
Extra Early Jersey Wakefield	.10	.20	.75	1.75
Charleston Wakefield	.10	.20	.65	1.75
Copenhagen Market	.10	.25	.75	2.00
Extra Early Express	.10	.20	.75	1.75
Golden Acre	.10	.30	1.00	3.50
All Head Early	.10	.20	.65	1.75

CABBAGE	Pkt.	Oz.	¼ lb.	1 lb.
Succession	$0.10	$0.20	$0.50	$1.75
Surehead	.10	.20	.50	1.75
Early Dwarf Flat Dutch	.10	.20	.50	1.75
Boss Flat Dutch	.10	.20	.50	1.75
Red Dutch	.10	.25	.75	2.50
Danish Ballhead	.10	.20	.60	2.00
Premium Flat Dutch	.10	.20	.50	1.75

DRUMHEAD SAVOY

CABBAGE—Continued

PERFECTION DRUMHEAD SAVOY—This is without any exception the finest stock of Savoy Cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first class. **Pkt. 10c, oz. 20c, ¼ lb. 60c, 1 lb. $2.00.**

GEORGIA COLLARDS

Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality. **Pkt. 10c, oz. 15c, ¼ lb. 20c, 1 lb. 60.**

CARROTS

1 Oz. of Seed to 100 Feet of Row

Carrots thrive best in rather a light, rich loam. The ground should be well manured with fine, well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the row. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, Carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.

OXHEART OR GUERANDE

One of the heaviest yielders and the best for stiff and heavy soils where the long varieties would fail. The roots are often 3 to 3½ inches thick at the top; nearly oval in shape; the flesh is bright orange, fine grained and sweet. Of the finest table quality and equally good for stock. **Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.**

CHANTENAY

A most excellent, medium early, half long variety. It is one of the best in quality for the market and home garden, while its great productiveness and the ease with which it can be harvested make it desirable as a field sort. The tops are medium sized, uniformly half long or stump rooted but tapering slightly, smooth, deep orange-red in color. The flesh is very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any. The variety is extensively used for bunching. **Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.**

OXHEART OR GUERANDE

HALF LONG DANVERS

CHANTENAY

EARLY SCARLET HORN

The earliest variety in our list. Blunt-pointed, about 3 inches long, 1½ inches thick, very fine grained, sweet flavored; deep rich orange color. Fine for bunching. **Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.**

HALF LONG DANVERS

A decided acquisition of the half-long type, broad-shouldered, cylindrical, admirable in color, fixed in habits, a wonderful producer. It is a first-class Carrot for all soils. **Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.**

IMPROVED LONG ORANGE

Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color. **Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. 90c.**

IMPROVED LONG ORANGE

CELERY

1 Oz. Will Produce 2,000 Plants

Plant seed in hotbed or very early in open ground. Transplant 4 inches apart when 3 inches high in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows 3 to 4 feet apart, either on surface or well-manured trenches a foot in depth, half filled with well-rotted manure. Set the plants from 6 to 8 inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the top of the center shoots.

WINTER QUEEN CELERY

GIANT PASCAL CELERY

A selection from the well-known Self-Blanching Celery. It partakes of the best qualities of that variety, is somewhat larger, and an excellent keeper. It is of fine nutty flavor, being entirely free from any bitter taste. It grows about 2 feet high. The stalks are very broad, thick, and crisp; the width and thickness of these are distinctive features of this variety.

EASY BLANCHING CELERY

A second-early variety, maturing right after Golden Self-Blanching and resembling it in size and general characteristics of growth, but the foliage is a bright rich green. The stalks are thick and solid and of extra fine quality. They are unusually meaty, pure white, heavy, and crisp. A valuable variety for fall, winter, and early spring use. Easily blanched. It has quickly become a great favorite with many market growers.

GOLDEN SELF-BLANCHING CELERY

WINTER QUEEN CELERY

It is without doubt the most valuable variety of Celery for winter and spring use ever introduced. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid, crisp and of delicious nutty flavor.

GOLDEN SELF BLANCHING CELERY

This cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery.

GOLDEN PLUME OR WONDERFUL CELERY

Recently introduced. Much better than White Plume in appearance, crispness, and fine nutty flavor, though somewhat earlier, larger and ranker growth. Blanches quickly, with full heart and rich, golden yellow color.

LARGE SMOOTH PRAGUE CELERIAC

WHITE PLUME CELERY

An early, handsome, self-bleaching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it, and as a Celery for fall and early winter use it is unsurpassed.

LARGE SMOOTH PRAGUE CELERIAC

The largest, smoothest and best of the Celeriacs. New apple shape small foliage, large round and smooth.

CELERY SEED FOR FLAVORING

This seed is used for flavoring pickels, soups, etc.

GOLDEN PLUME CELERY

CELERY	Pkt.	Oz.	¼ lb.	1 lb.
GOLDEN PLUME OR WONDERFUL	$0.10	$0.30	$1.00	
GOLDEN SELF-BLANCHING	.10	.40	1.25	$4.00
WHITE PLUME	.10	.25	.75	2.50
GIANT PASCAL	.10	.20	.50	1.75
WINTER QUEEN	.10	.25	.50	1.75
EASY BLANCHING	.10	.20	.60	2.00
FLAVORING		.10	.15	.40
CELERIAC				
LARGE SMOOTH	.10	.25	.50	1.75
NEW APPLE SHAPE	.10	.25	.50	1.75

CORN For Table Use

WHEN CORN IS WANTED BY MAIL, ADD 6 CENTS PER POUND TO PAY POSTAGE

CULTURE—Sugar Corn may be planted in rows 3 to 4 feet apart, and the seeds placed about 18 inches apart in the rows, or planted in hills 3 to 4 feet apart each way, according to variety grown or richness of soil. Do not let more than two or three plants remain in each hill. It can be planted in this vicinity from first of May to last of July for succession of crop. By planting every two weeks a family may have good corn throughout the whole season.

First Early Varieties

56 POUNDS PER BUSHEL

Not a sugar corn but makes fine roasting ears for early planting.

FIRST EARLY NECK CORN—By far the earliest roasting-ear corn we have. Can be planted in April without injury, as it is very hardy.

EXTRA EARLY ADAMS—Extremely hardy and early; one of the best for early planting.

EARLY ADAMS—A favorite in the South.

NINETY-DAY CORN (Red Cob)—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn, and if not used as green corn makes a good variety for feeding purposes. It may be planted for early crop, and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop.

SWEET OR SUGAR CORN

Extra Early Varieties

GOLDEN BANTAM CORN — The earliest and best of sugar corns. It is of golden color and delicious flavor, with the sweetness of honey; can be planted earlier than the other varieties of true sweet corn, as it is very hardy. The stalks are dwarf in habit, growing about four feet high, producing two or three good ears five to six inches long, well set from the ground.

Golden Bantam Corn

DE LUE'S GOLDEN GIANT CORN—The stalks grow 4½ to 6 feet tall and very near the ground; about one-third are purple in stalk, leaf and husk. They carry two or three good ears, 7 to 9 inches long; cob of small diameter, with 12 to 20 rows of long, deep kernels of deep orange color. The husk is very heavy, affording the end protection from worm and bird.

BARDENS WONDER BANTAM—A yellow sugar corn with all that the name implies, making ears up to 9 inches long; sweet and of good flavor. Matures only about a week later than Golden Bantam. **Pt. 30c, qt. 50c, ½ pk. $1.50, pk. $1.65.**

EARLY SHEFFIELD—Plant as early as Adams. Makes strong, vigorous growth with abundant foliage, growing about 5 feet and bearing usually two ears of handsome appearance.

WHIPPLE'S EARLY WHITE CORN—Of remarkable size, considering its earliness. Ears 8 inches long with 16 to 20 rows of rather narrow deep grains. Excellent quality, having rich, tender, well filled ears. Very desirable for market gardeners.

WHIPPLE'S EARLY YELLOW CORN—Practically same as above, only yellow grain and very sugary.

HOWLING MOB—Howling Mob is one of the best flavored and most tender of all second-early white sweet corns. Ears of Howling Mob measure from 7 to 9 inches in length and they are closely set with 12 or 14 rows of large, pearly-white grains.

EARLY MINNESOTA—One of the first early among sugar corn.

Main Crop Varieties

One bushel of Sugar Corn weighs 44 lbs.

ASK FOR PRICES IN QUANTITY

COUNTRY GENTLEMAN CORN—This is the sweetest and most delicious flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts.

STOWELL'S EVERGREEN—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large; one of the best.

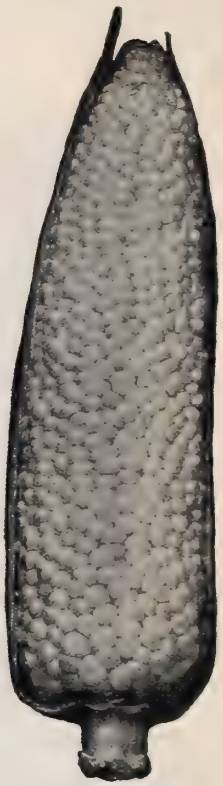
LATE MAMMOTH—The largest variety grown; very fine for market purposes.

ZIGZAG EVERGREEN—This is one of the sweetest and best late sweet corn, not even excepting the celebrated Country Gentleman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, except that the kernels are placed irregularly or zigzag upon the cob, which is always an indication of great sweetness in any variety of sugar corn.

TRUCKER'S EARLY SUGAR CORN—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excellent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen; very productive.

EARLY MAMMOTH — A splendid market sort, producing large, handsome ears; grain large, white and sweet; fills out well at the end.

WHITE EVERGREEN—Has ears as large as Stowell's; is five days earlier; grains pure white. A valuable acquisition for the gardener and canner.



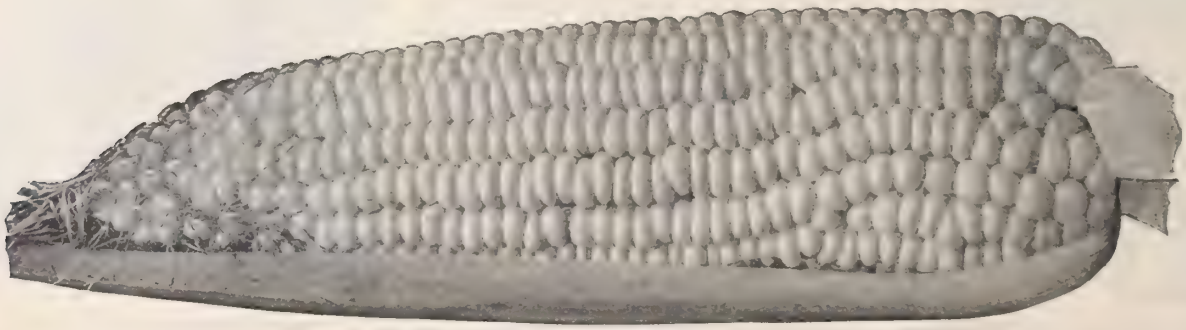
Country Gentleman Sugar Corn

GARDEN CORN	(About) ⅞ lb. (1 pt.)	1¾ lbs. (1 qt.)	14 lbs. (1 pk.)
FIRST EARLY NECK	$0.15	$0.30	$1.25
EXTRA EARLY ADAMS	.10	.20	1.25
EARLY ADAMS	.10	.20	1.25
NINETY DAY RED COB	.10	.20	.75

SWEET CORN	(About) ¾ lb. (1 pt.)	1⅜ lbs. (1 qt.)	11 lbs. (1 pk.)
DELUE'S GOLDEN GIANT CORN	$0.15	$0.30	$1.50
GOLDEN BANTAM CORN	.15	.30	1.50
WHIPPLE'S EARLY WHITE	.15	.30	1.50
WHIPPLE'S EARLY YELLOW	.15	.30	1.50
HOWLING MOB	.15	.30	1.50
EARLY MINNESOTA	.15	.30	1.50
COUNTRY GENTLEMAN	.15	.25	1.25
STOWELL'S EVERGREEN	.15	.25	1.25
TRUCKER'S EARLY	.15	.25	1.25
LATE MAMMOTH	.15	.25	1.25
EARLY MAMMOTH	.15	.25	1.25
WHITE EVERGREEN	.15	.25	1.25
EARLY SHEFFIELD	.15	.25	1.25
ZIGZAG EVERGREEN	.15	.25	1.25

Add for Postage, 8c per pound, 10c for 2 pounds.

Ask for Prices in Quantity and by the Bushel.



Stowell's Evergreen Sugar Corn

CUCUMBERS

1 Oz. Will Plant 50 Hills. 2 Lbs. Will Plant an Acre.

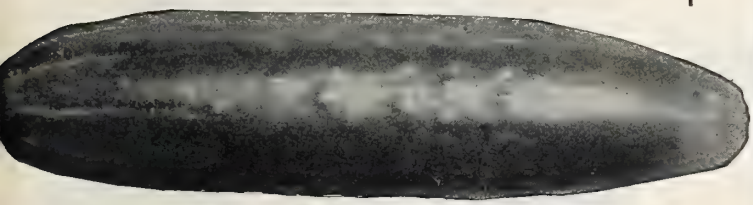
For very early Cucumbers sow the first of April in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground in rich soil when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm in hills 4 feet apart for the smaller varieties, and 5 feet for the larger sort. For pickling sow from middle of June to last of July. Manure with wood ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot plaster, or air-slaked lime to protect from bugs. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.

IMPROVED BALTIMORE WHITE SPINE

This is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers around Baltimore and Norfolk, as well as the growers from Virginia to Florida.

EARLY FORTUNE CUCUMBER

One of the earliest and best dark green White Spine Cucumbers. Extremely early, and beautiful shape. Good for market gardeners, truckers or private family; in fact, any one who likes a dark green, white spine cucumber it cannot help but please. Fine for Southern growers, as it stands shipping remarkably well.



IMPROVED LONG GREEN CUCUMBER

The skin is of a deep green, and the flesh is solid, crisp and of fine quality. We have the very best strains of this variety and recommend it as much the best cucumber of all, and the variety every one should want. The best known and most popular variety for general use. Is vigorous and productive, and forms fruit fit for use as early as the shorter varieties. The mature fruit is almost 12 inches long.

BURR, OR WEST INDIA GHERKIN

An extremely small fruited variety, grown exclusively for pickles. It has no value for slicing. Is very prickly, but tender and crisp if pickled when young. Seed germinates slowly.

Early Green Prolific

A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and fine quality when sliced for the table.

Ever-Bearing Cucumber

This variety is unique, and will prove valuable both for the table and for pickling. Is of small size, very early, enormously productive and extremely valuable as a green pickler. The peculiar merit of this new Cucumber is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation.

Early Cluster

A short prickly variety, bearing in clusters near the root. A good bearer.

Jersey Pickling

This is the most popular sort with the market gardeners around Baltimore and Philadelphia for pickling. Said to green better than any other variety.

ENDIVE

Is One of the Best Salads for Fall and Winter Use. One Ounce of Seed to 150 Feet of Row.

For early use, sow as soon as the ground can be worked in the spring, in drills 15 inches apart, and then thin plants to 6 or 8 inches in row. To blanch the leaves, gather them carefully together when perfectly dry and tie them with soft fibrous material.

GREEN CURLED ENDIVE

GREEN CURLED (Green Ribbed)

The leaves of this variety are finely divided, giving a mossy appearance. The center tends to blanch to a delicate white. The plant is hardy and vigorous and especially good for fall and winter use.

BROAD LEAVED BATAVIAN (Escarrole)

This variety is used mostly for soups and stews. For blanching same must be tied up.

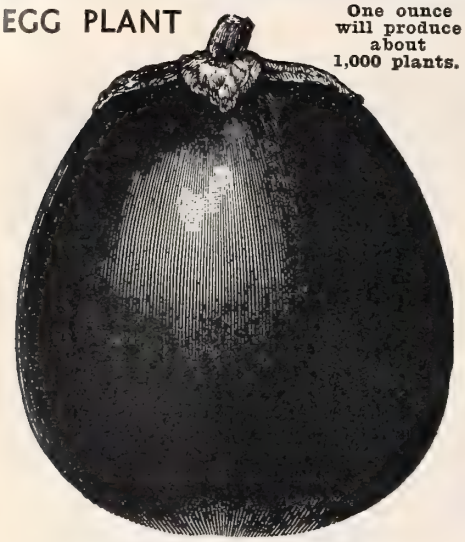
Pkt. 10 cents, Oz. 20 cents, ¼ lb. 40 cents, 1 lb. $1.25

CUCUMBERS	Pkt.	Oz.	¼ lb.	1 lb.
IMPROVED BALTIMORE WHITE SPINE	$0.10	$0.15	$0.30	$0.90
EARLY FORTUNE	.10	.15	.25	.75
JERSEY PICKLING	.10	.15	.25	.75
IMPROVED LONG GREEN	.10	.15	.35	1.00

CUCUMBERS	Pkt.	Oz.	¼ lb.	1 lb.
BURR OR WEST INDIA GHERKIN	$0.10	$0.15	$0.40	$1.25
EARLY GREEN PROLIFIC	.10	.15	.25	.75
EVERBEARING	.10	.15	.25	.75
EARLY CLUSTER	.10	.15	.25	.75
ENDIVE				
GREEN CURLED	.10	.15	.40	1.25

EGG PLANT

One ounce will produce about 1,000 plants.



BALTIMORE EGG PLANT

CULTURE—Sow the seed in hot - beds early in March. When three inches high pot the young plants, using small pots, and plunge them in the same bed so that the plants will become stocky. They can be planted out from the pots when the season becomes sufficiently warm in May or June, or they can be transplanted into a second bed to make them strong until the weather is warm enough to transplant about three feet apart each way in a thoroughly-worked and well-enriched soil.

BALTIMORE EGG PLANT—This is decidedly the best and most profitable Egg Plant in cultivation. It is large, thornless, of beautiful shape and handsome purple color.

BLACK BEAUTY EGG PLANT—The earliest of all large fruited Egg Plants and produces fruit quite as large as the New York Purple in 10 days less time. The fruit is symmetrical in shape, of uniform size, of a dark rich purple color.

NEW YORK IMPROVED LARGE PURPLE EGG PLANT—This market garden variety has plants of strong growth, and is very productive, producing plants of large size and fruits of smooth, deep purple color.

KALE OR BORECOLE

One Ounce of Seed Will Sow a Drill About 200 Feet.

EXTRA CURLED NEW AMERICAN KALE

The Kales are more hardy than cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in August and protect during winter. It must be sown in April or May for later use.

GRIFFITH & TURNER CO.'S NEW KALE—Larger, more curled and longer-standing than any other Kale. **Packet 10c, ¼ lb. 25c, lb. 90c.**

EXTRA CURLED NEW AMERICAN KALE—This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than any other variety.

DWARF GERMAN OR SIBERIAN KALE—Needs no description as it is a standard variety.

DWARF CURLED NORFOLK OR SCOTCH KALE—Yellowish-green foliage. Grows close to the ground and spreading. Used largely in the south.

BLUE DOUBLE CURLED SCOTCH KALE—A superior sort with a fine Blue-greenish color, much better than Norfolk or Scotch Kale.

EGG PLANT	Pkt.	Oz.	¼ lb.	1 lb.
BLACK BEAUTY	$0.10	$0.30	$1.00	$3.50
NEW YORK IMPROVED	.10	.30	1.00	3.50
BALTIMORE	.10	.30	1.00	3.50
KALE		Pkt.	¼ lb.	1 lb.
G. & T. CO.'S NEW KALE		$0.10	$0.25	$0.90
EX. CURLED NEW AMERICAN KALE		.10	.15	.50
DWARF GERMAN OR SIBERIAN KALE		.10	.15	.40
DWARF CURLED NORFOLK OR SCOTCH KALE		.10	.20	.60
BLUE DOUBLE CURLED SCOTCH KALE		.10	.20	.75

CHICORY

WITLOOF OR FRENCH ENDIVE

Fine for salads. Sow in open ground in May in rows 18 inches apart. Thin to 6 inches in row. In fall take up and place upright about 2 inches apart, in trench and cover with rich dirt and top dress with manure, about 6 inches deep. In spring, the plants will come out in 5 or 6 weeks.

Pkt. 10c; Oz. 20c; ¼ lb. 45c; lb. $1.50

FENNEL (Finocchia)

Florence fennel is used largely by the Italian trade, in salads, soups, etc,, for flavoring. It grows very branching, about two to three feet high and has a dense feathery foliage. Same should be hilled when 18 in. high to bleach a creamy-white. **Pkt. 10c; Oz. 20c; ¼ lb. 60c; lb. $2.00**

LEEK

1 Oz. of Seed to 150 Feet of Row.

Select good Onion soil, manure liberally, plant in April in drills 6 to 8 inches deep, and 18 inckes apart, and thin to 9 inches apart in the drill. Gradually draw [illegible] around the plants until the drills are filled level with the surface. Draw for use [illegible] To be used in soups or boiled as A[illegible]

EXTRA LARGE MAMMOTH — A large and strong plant; hardy. The best variety for general culture.

KOHLRABI

1 Oz. of Seed to 100 Feet of Row.

Improved White Vienna

Bulb light green, flesh white. Very rapid in growth and of early maturity. Fine in texture and symmetrical in form.

LETTUCE

Lettuce requires rich and rather moist soil. The rows should be about 12 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid growth, the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

BIG BOSTON

BIG BOSTON—The same in color, shape and general appearance as the Boston Market, double the size. A most desirable sort either for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it.

BALTIMORE CABBAGE LETTUCE—The heads are large and solid; color pretty light green, and very slow to seed; in fact, it is just what the truckers and gardeners want. A large trucker in New Jersey writes: "The Baltimore Cabbage Lettuce I had of you was certainly very fine."

	Pkt.	Oz.	¼ lb.	1 lb.
CHICORY, WITLOOF	$0.10	$0.20	$0.45	$1.50
FENNEL	.10	.20	.60	2.00
LEEK	Pkt.	Oz.	¼ lb.	1 lb
EXTRA LARGE MAMMOTH	$0.10	$0.20	$0.60	$1.75
KOHL RABI	Pkt.	Oz.	¼ lb.	1 lb.
WHITE VIENNA IMPROVED	$0.10	$0.20	$0.50	$1.75
LETTUCE	Pkt.	Oz.	¼ lb.	1 lb.
BIG BOSTON	$0.10	$0.20	$0.40	$1.25
BALTIMORE CABBAGE	.10	.20	.40	1.25

ABOVE PRICES ARE POSTPAID

LETTUCE—Continued

LETTUCE—Lettuce requires rich and rather moist soil. The rows should be about 18 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid growth, the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

G. & T. CO.'S WHITE SEED SUMMER LETTUCE—The Best Summer Lettuce Ever Introduced—This variety has exceeded our expectation This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. It has a beautiful green color; head solid; light leaves, nicely crinkled; very tender, and of most excellent flavor.

NEW YORK - WONDERFUL or LOS ANGELES—Erroneously called Iceberg. The most talked of Lettuce today. It is grown largely in California and the West, shipped to the Eastern markets under the name of Iceberg. It is a crisp heading variety, producing very compact heads, with green leaves, slightly curled on edges.

BLACK SEED SUMMER LETTUCE—This lettuce is becoming very popular among gardeners for summer use; of the Cabbage type, remaining a long time in prime condition, before going to seed. It is light green in color, fine quality, crisp, tender, and nearly every plant will make a head.

"ICEBERG" LETTUCE—The heads are large, crisp, solid and tender, with pink tinge on edge.

EARLY PRIZE HEAD (Seed White)—A large, clustering, non-heading lettuce, most excellent for the home and garden, and undoubtedly the most easily grown variety in cultivation. It is too tender, however, to stand shipping or handling on the market. The leaves are finely curled and crumpled, bright green tinged with brownish red, and are very crisp, tender and sweet.

EARLY CURLED SIMPSON—Black seed. Very early; excellent for salads; forms a compact mass of leaves.

MAY KING—A very early, new variety, forming fine, hard heads within a few weeks after planting. It is medium sized, light green, with buttery but crisp heads. There is just a faint tint of brown on the head.

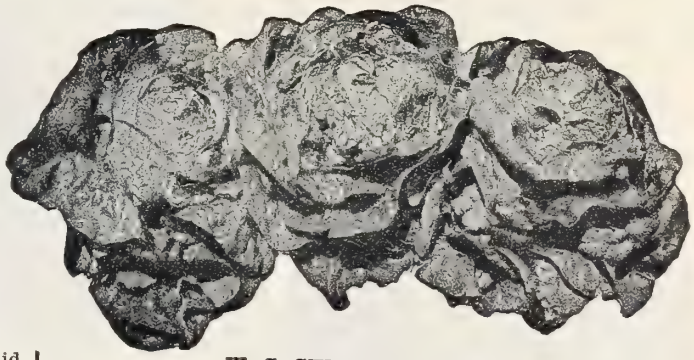
We have had no end of praise from our friends and customers who have tried this variety. It is essentially a spring sort, and does well all summer. Being of rapid growth and quick heading, it is especially recommended for home garden, and is universally esteemed.

GRAND RAPIDS—This variety is considered by many the best loose-headed Lettuce for forcing under glass. Leaves medium size, of light, yellowish green color, much crimpled and frilled, thin, but of very upright growth; crisp, tender and of good quality.

DEFIANCE (Summer)—Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm that they have to be cut open to allow the flower heads to come through.

LARGE LOAF LETTUCE—This is so well known to truckers and gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not acquainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is unsurpassed for frame use, and is also an excellent outdoor lettuce for fall or early spring.

NEW YORK OR WONDERFUL LETTUCE



W. S. SUMMER LETTUCE

COS LETTUCE

ROMAINE OR WHITE PARIS COS—The best of the Cos or celery varieties. Forms a large, light green plant with the head well folded and quite solid. Cos lettuce is also called Romaine, and is very popular with our foreign population, for it is highly prized in England and France.

HANSON—One of the most reliable sure-heading sorts. Makes a large globular head. Color, light green. Excellent quality. A fine variety for summer planting, as it stands hot weather better than most sorts.

LETTUCE	Pkt.	Oz.	¼ lb.	1 lb.
LARGE LOAF LETTUCE	$0.10	$0.20	$0.40	$1.25
HANSON	.10	.20	.40	1.25
GRAND RAPIDS	.10	.20	.40	1.25
DEFIANCE	.10	.20	.50	1.50
G. & T. CO.'S WHITE SEED SUMMER	.10	.20	.60	2.00
G. & T. CO.'S BLACK SEED SUMMER	.10	.20	.40	1.50
NEW YORK-WONDERFUL, OR LOS ANGELES	.10	.20	.50	1.75
MAY KING	.10	.20	.40	1.25
ICEBERG	.10	.20	.50	1.75
EARLY PRIZE HEAD	.10	.20	.40	1.25
EARLY CURLED SIMPSON	.10	.20	.40	1.25
ROMAINE, OR WHITE PARIS COS	.10	.20	.40	1.25

MUSKMELONS OR CANTALOUPES

CULTURE—One ounce of seed to 50 hills. Sow about the last of spring or the first of summer in hills of light, rich, sandy soil, 4 feet apart, allowing but three plants to grow in each hill; after they have grown about a foot long, pinch off the points of shoots, which causes the vines not only to become stronger, but makes them produce lateral branches and prove more productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence.

KNIGHT CANTALOUPE

KNIGHT CANTALOUPE

This Cantaloupe has created a furore with our truckers, on account of its earliness, productiveness, uniformity in shape and appearance and its fine table qualities. It matures about a week earlier than the regular Rocky Ford, is larger in size and makes a most attractive and saleable melon. It has thick, green flesh, shading to orange at the center. The fruits are oblong in shape, well ribbed and well netted. It is a leader both for planting for home use and market and for shipping. Its early maturity, together with its fine qualities, are strong points in its favor. **Pkt. 10c., Oz. 20c., ¼ Lb. 40c., Lb. $1.25.**

NEW MARYLAND CANTALOUPE—Is earlier, larger and cuts better than the Rocky Ford. Flesh is green, of fine flavor and heavily netted, making it the most attractive melon on the market. **Pkt. 10c., Oz. 15c., ¼ Lb. 30c., Lb., $1.25.**

LONG JOHN—Grown extensively in Anne Arundel county. It is oblong, growing from 7 to 11 inches long. Deeply netted and ribbed. Green-fleshed and wonderful flavor. Thick meshed, with small seed cavity. **Pkt. 10c., Oz. 20c., ¼ Lb. 50c., Lb. $1.50.**

EMERALD GEM—Meat, salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it, and you will want it again. **Pkt. 10c., Oz. 15c., ¼ Lb. 30c., Lb. 90c.**

EARLY NETTED GEM—Extensively grown, and many prefer it to all others for table use. Thick meated; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted. **Pkt. 10c., Oz. 15c., ¼ Lb. 25c., Lb. 75c.**

IMPROVED JENNY LIND—A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. **Pkt. 10c., Oz. 15c., ¼ lb. 25c., Lb. 75c.**

PAUL ROSE—The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem or Rocky Ford. The firm flesh is a rich orange-red color. **Pkt. 10c., Oz. 15c., ¼ Lb. 25c., Lb. 75c.**

EXTRA EARLY HACKENSACK—Netted green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier than the Old Hackensack. **Pkt. 10c., Oz. 15c., ¼ Lb. 25c., Lb. 75c.**

HONEY DEW MELON—This new melon averages about 6½ inches in diameter. Smooth skin, almost white, rind thin and tough, good keeper and fine flavor. **Pkt. 10c., Oz. 20c., ¼ Lb. 50c., Lb. $1.50.**

BOTTOMLY—A production of Anne Arundel County, Maryland. One of the newest and best Cantaloupes in existence. About a week later than the Knight. Fair size, excellent flavor, beautiful form and comprises all that is necessary for a good melon. **Pkt. 10c., Oz. 20c., ¼ Lb. 40c., Lb. $1.25.**

BALTIMORE NUTMEG CANTALOUPE

BALTIMORE NUTMEG CANTALOUPE—It is green-fleshed and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore. It is a leading sort all over the country. **Pkt. 10c., Oz. 15c., ¼ Lb. 25c., Lb. 85c.**

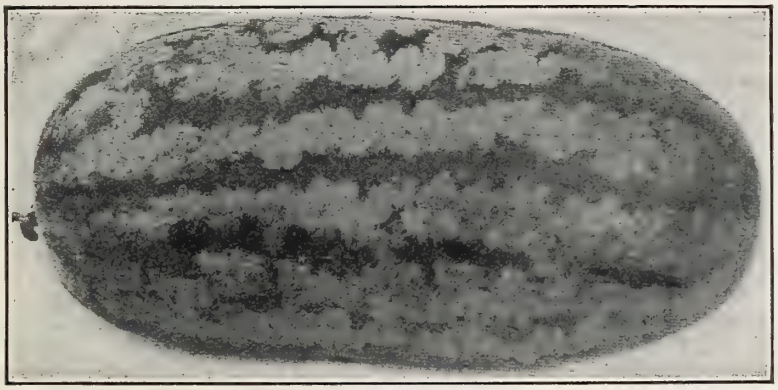
ANNE ARUNDEL CANTALOUPE—One of the largest melons grown around Baltimore. Flesh green, flavor delicious. Heavily netted and ribbed. Fine for market or home use. **Pkt. 10c., Oz. 15c., ¼ Lb. 30c., Lb. 90c.**

ROCKY FORD MELON

This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the **Rocky Ford** region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and highly flavored. **Pkt. 10c., Oz. 15c., ¼ Lb., 25c., Lb. 75c.**

WATERMELONS

CULTURE—One ounce of seed to 30 hills; 4 pounds to the acre. Watermelons require a rich, sandy soil for best development. Cultivate the same as for cantaloupes, except that the hills should be eight or ten feet apart.



LORD BALTIMORE

LORD BALTIMORE—It is very early, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it one of the very best melons that grow.

FLORIDA FAVORITE—This we consider one of the richest and sweetest flavored melons grown, of medium size and prolific. It is now very popular with the truckers and melon-growers of Maryland and Virginia, and sells readily in the Baltimore markets.

RIBAULT WATERMELON—This new melon grows from 24 to 30 inches long, and 14 to 18 inches in diameter. The rind is dark green, slightly striped with lighter green. Rind is thick and makes a good shipper. Free from hard centers. Seed large white, with black rings on the tips. Has a small seed cavity and will mature in 95 days.

STONE MOUNTAIN—A very large nearly round or "blocky" melon of high quality. Rind fairly tough, dark green; flesh sweet, rich scarlet, with few seeds.

TOM WATSON—A recent introduction. A large oblong melon, dark green skin, with thin, tough rind, which gives it excellent shipping qualities. Melons are produced from 18 to 24 inches long and from 8 to 12 inches in diameter. Flesh deep red, crisp, melting and of finest flavor. Heart large, with little or no core. One of the best eating melons known.

EXCEL—In appearance it strongly resembles the Watson, has a very thin, tough rind, is uniformly large. It is an unusual melon in that, although a grand shipper, it is also one that we can highly recommend for private garden, the beautiful red meat being decidedly crisp, sweet and luscious, and solid to the center.

KLECKLEY'S SWEET.—Skin dark green, thin rind, flesh scarlet, very solid, firm and most luscious quality for the home market or family garden. It is decidedly one of the best.

THURMOND GRAY WATERMELON—Thurmond Gray is similar to Irish Gray, except with larger melons and brown seed instead of white. The rind is very tough and stands shipping as well as any melon grown. The flesh is free from strings, is fine grained, crisp and tender. Its eating qualities are excellent.

IRISH GRAY WATERMELON—This new South Georgia variety is one that has attained great popularity on its merit. It's a combination melon, equally good for shipping or home use.

CITRON—For Preserves. Fruit round and handsome. Used in making preserves only.

DARK ICING—An extra early and extra good melon for home use and nearby market. One of the most delicious of melons; rich red and sugary to the very rind.

GRAY MONARCH OR WHITE ICING—This distinct melon is without a doubt one of the largest of all. The skin is a mottled gray color, shape long, flesh bright crimson, and of sweet delicious flavor.

RATTLESNAKE WATERMELON—Large, oblong, striped and mottled; flesh bright red; a good shipper, a favorite variety in the South.

WINTER QUEEN.—These Melons are nearly round. Rind white, with pale green stripes. Seed, black and small. Flesh, deep red, stringless and sweet. Of excellent quality, ripening in 100 days. Will remain solid for a long time.

GENERAL PERSHING WATERMELON.—One of the best yet introduced. Tough rind, making it a good shipper. Red, sweet flesh. Big crop of enormous size.

NEW WATERMELON—THURMOND GRAY

WATERMELON	Pkt.	Oz.	¼ lb.	1 lb.
LORD BALTIMORE	$0.10	$0.15	$0.25	$0.75
FLORIDA FAVORITE	.10	.15	.25	.75
DARK ICING	.10	.15	.25	.75
TOM WATSON	.10	.15	.25	.60
THURMOND GRAY	.10	.15	.25	.75
RATTLESNAKE	.10	.15	.25	.75
CITRON	.10	.15	.25	.90
STONE MOUNTAIN	.10	.15	.25	.75

WATERMELON	Pkt.	Oz.	¼ lb.	1 lb.
GRAY MONARCH OR LONG WHITE ICING	$0.10	$0.15	$0.25	$0.75
WINTER QUEEN	.10	.15	.25	.75
KLECKLEY'S SWEET	.10	.15	.25	.75
EXCEL	.10	.15	.25	.75
IRISH GREY	.10	.15	.25	.75
RIBAULT WATERMELON	.10	.15	.25	.75
GENERAL PERSHING	.10	.15	.25	.75

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

YELLOW GLOBE DANVERS ONION

ONION SEED

CULTIVATION.—TO GROW LARGE ONIONS FROM SEED.—The seed should be sown as early as possible in the spring, as they grow much better during the cool weather, and should make most of their growth before the hot weather sets in. Sow 5 pounds of seed to the acre for large onions.

YELLOW GLOBE DANVERS.—A very handsome, round, yellow onion; a large yielder and splendid keeper; the preferred sort with market gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large onions.

PRIZE TAKER.—This is a large, beautiful onion, rich straw color, and is of enormous size. The flavor is mild and delicate. By sowing this sort early you can raise a large crop of large onions the first season with very little trouble. All that is necessary is good ground, proper cultivation, and not to have them too thick.

WHITE SILVERSKIN or PORTUGAL.—A good variety for family use, skin and flesh pure white, mild flavor and flat shape. The best white onion to grow largely for sets.

AUSTRALIAN BROWN.—A Valuable Long-Keeping Onion.—The outside skin is of a deep amber brown, distinct from all other onions, extremely hard and firm, of fine flavor.

WETHERSFIELD LARGE RED.—Well-known and favorite sort. A large yielder and good keeper.

YELLOW DUTCH, or STRASBURG.—The most popular and best variety for set purposes. Is similar to the Yellow Danvers. Flat in shape, color and size, but as a set onion it has the quality of ripening down earlier and more uniformly.

ONION SETS

CULTIVATION OF ONION SETS

Have a clean and very rich soil, which should be thoroughly cultivated, or it will not do well enough to pay for the trouble. Disturb the roots of the onion as little as possible, either in thinning or hoeing, and never hoe earth toward them to cover or hill, as we do most other things.

White—1 qt. 30c; mailed 10 cents extra, Yellow—1 qt. 25c

Ask for prices on sets by the bushel of 32 lbs. It requires 10 to 15-bushel sets to plant one acre.

OKRA, or GUMBO

Select warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use.

DWARF OKRA

This is the preferred kind with the growers; is of dwarf habit and very productive.

Pkt., 10c. Oz., 15c. ¼ Lb., 20c. Lb., 50c.

WHITE VELVET

It is very distinct and the pods are perfectly round and smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great abundance.

Pkt., 10c. Oz., 15c. ¼ Lb., 20c. Lb., 50c.

MUSTARD

FORDHOOK FANCY.—Very dark green plume-like leaves of tender quality and fine flavor.

FLORIDA BROADLEAF.—Quick growing and very productive. The leaves are very large, slightly crumpled, medium light green.

GIANT CURLED.—Highly esteemed in the South, where the seed is sown in the fall and used in the spring as a salad. Our stock is the true curled leaf, and produces plants two feet high and of great breadth, forming enormous bunches.

WHITE MUSTARD.—Seed for Pickles.

MUSHROOM SPAWN (American)

Cake 30c, by mail 35c, 10 lbs. $2.50 by Freight or Express. Two pounds of spawn are sufficient for a bed 3 feet by 6 feet.

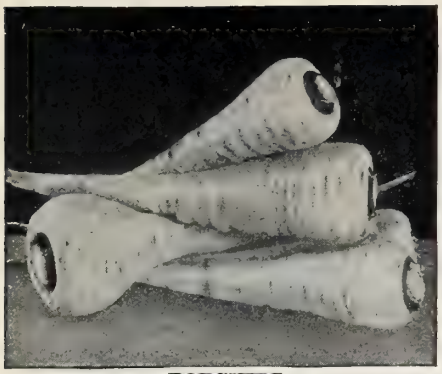
CULTIVATION.—Select fresh horse manure, with straw bedding. Put in a flat pile and cover with 2 inches or 3 inches of good soil. In the course of 3 or 4 days, turn over and mix thoroughly. Moisten with water, pile up and cover again with soil and allow the pile to heat. Turn again in 5 or 6 days and moisten as before. Repeat the above about 4 times, every 5 or 6 days. Put this mixture on floor about 8 inches deep in beds the size desired and pack down with shovel. When the heat rises to 100 degrees, wait until it recedes to about 70, then place the spawn. Keep same moist, make your bed in cellar, shed, pit or some building that can be darkened.

NASTURTIUM

Plant in May, the climbing varieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be penetrated by the nail, for pickles.

	Oz.	¼ lb.	1 lb.
TALL MIXED	$0.10	$0.20	$0.55
DWARF MIXED	.10	.20	.65

ONION	Pkt.	Oz.	¼ lb.	1 lb.
WHITE SILVERSKIN or PORTUGAL	$0.10	$0.20	$0.60	$2.00
AUSTRALIAN BROWN	.10	.25	.50	1.50
WETHERSFIELD LARGE RED	.10	.25	.60	2.00
YELLOW DUTCH or STRASBURG	.10	.20	.50	1.50
YELLOW GLOBE DANVERS	.10	.20	.50	1.75
PRIZE-TAKER	.10	.20	.50	1.75
MUSTARD				
FORDHOOK FANCY or OSTRICH PLUME	.10	.15	.25	.60
FLORIDA BROAD LEAF	.10	.15	.25	.60
GIANT CURLED	.10	.15	.20	.50
WHITE MUSTARD, for Pickles	.10	.15	.20	.40



PARSNIPS

PARSNIP

The Parsnip will flourish best and give the longest, largest and smoothest roots in a very deep, rich soil—one that has been made rich from manure the previous year. Fresh manure makes the roots somewhat ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to five or six inches apart.

HOLLOW CROWN OR SUGAR.—The Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardens. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country.

Oz. 10 cents, ¼ lb. 20 cents, 1 lb. 65 cents.

RHUBARB OR PIE PLANT

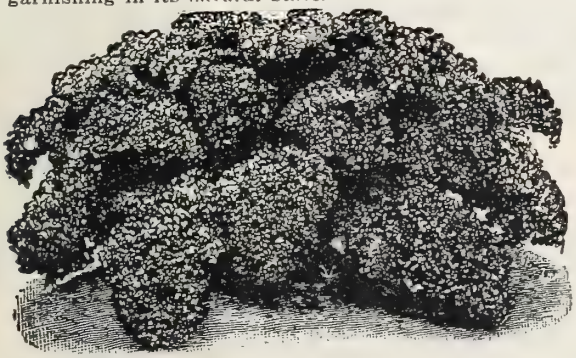
1 oz. seed to 125 ft. of drill

CULTURE.—Good plants are easily grown in any good garden soil. Sow seed thinly in shallow drills a foot apart, thin to 4 or 5 inches. Keep soil loose and free from weeds. The plants are liable to vary considerably. Pick out the strongest and best. In fall or spring following transplant to the permanent bed, 4 feet apart each way, in deep, warm and very rich soil.

Pkt. 10 cents, Oz. 20 cents, ¼ lb. 35 cents, 1 lb. $1.25

PARSLEY

Select rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in germinating, it will be necessary to sow early. Thin plants to 4 inches apart when 2 inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.



BALTIMORE EMERALD GREEN TRIPLE CURLED PARSLEY.—The newest and best variety yet introduced. Beautiful green color and finely curled and crimped.

DWARF EXTRA CURLED.—The most beautiful and valuable variety in use; handsome bright green color; finely crimped, beautifully curled.

MOSS CURLED.—A very select crimped variety.

HAMBURG ROOTED or GERMAN.—The root resembles a small parsnip and is the edible part of the sort; used for flavoring soups.

PARSLEY	Pkt.	Oz.	¼ lb.	1 lb.
BALTIMORE EMERALD GREEN TRIPLE CURLED	$0.10	$0.15	$0.25	$0.70
DWARF EXTRA CURLED	.10	.15	.25	.70
MOSS CURLED		.15	.25	.70
HAMBURG ROOTED GERMAN	.10	.15	.25	.70

PEPPER OR CAPSICUM

Is cultivated mainly for pickles; used as a seasoning in many ways; sometimes medicinally. Sow seed early in hotbed, if possible; if not, select a warm place in the garden for seed bed; sow as soon as the soil is warm. Transplant when 3 or 4 inches high, in rows 18 inches apart.

BELL or BULL NOSE PEPPER, HOT.—Plant vigorous, compact, very productive, ripening its crop uniformly and early. Fruit large, with thick flesh, of excellent quality for use in salads and pickles; color bright red when ripe.

BULL NOSE PEPPER, SWEET.—Large size like regular hot Bull Nose pepper, but mild.

RUBY KING.—An improved American variety often four to six inches in length and quite symmetrical in shape. It is very bright colored and the flesh is sweet and mild flavored.

SWEET MOUNTAIN.—Plants very vigorous, of compact, upright growth. The fruit does not ripen until very late. It is very large and long, often eight inches or more in length by two in diameter; very smooth and handsome, being, when fully matured, of a rich red color. Flesh very thick, sweet and mildly flavored.

CHINESE GIANT.—Double the size of Ruby King; the finest mild Red Pepper grown. It is very productive, having a magnificent appearance, which makes it sell readily.

LONG RED CAYENNE.—A well known variety, having a slender, twisted and pointed pod about four inches long, and, when ripe, bright red in color. Extremely strong and pungent flesh.

RED CHERRY.—Plant tall, bearing a profusion of round, bright red fruit which are very pungent when ripe. The plant, when in fruit, is very ornamental.

RED CHILI.—Used in the manufacture of pepper sauce. The bright, rich red pods are about two inches long, one-third to one-half inch in diameter at the base, tapering to a sharp point and exceedingly pungent when ripe.

PIMENTO.—The mildest flavored of all peppers. Its productiveness makes it a desirable sort for the home garden or market.

CALIFORNIA WONDER.—Plants very vigorous. Is large, prolific and of good weight. Of finest quality and should be planted by all pepper growers.

PEPPER	Pkt.	Oz.	¼ lb.	1 lb.
LARGE BELL or BULL NOSE, SWEET	$0.10	$0.25	$0.75	$2.75
BULL NOSE, HOT	.10	.25	.75	2.50
RUBY KING	.10	.25	.75	2.75
SWEET MOUNTAIN	.10	.25	.75	2.75
CHINESE GIANT	.10	.40	1.25	4.00
LONG RED CAYENNE	.10	.30	.75	3.00
RED CHERRY	.10	.40		
RED CHILI	.10	.40		
PIMENTO	.10	.35	.75	
CALIFORNIA WONDER	.15	.50	1.25	4.50

HERBS

A well assorted selection of the various kinds of herbs should have a place in every garden. Their value in seasoning and flavoring is well known and appreciated. Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance. Care should be taken to harvest on a dry day just before they fully blossom.

	Pkt.	Oz.	¼ lb.	1 lb.
ANISE	$0.10	$0.15	$0.40	
BASIL	.10	.15		
BENE, use medicinally	.10	.15		
BORAGE, excellent for bees	.10	.15		
CARAWAY	.10	.15		
CHERVIL	.10	.25		
CHICORY, Witloof	.10	.20	.45	$1.50
CORIANDER	.10	.15		
DILL	$0.10	$0.15	$0.25	$0.75
FENNEL Florentine)	.10	.25	.75	
LAVENDER (Vera)	.10	.25	.75	
MARJORAM	.10	.25	.75	
ROSEMARY, an aromatic herb	.10	.35		
SAGE (Broadleaf)	.10	.40	1.25	
THYME (broad-leaved English)	.10	.50	1.75	

PEAS—SELECTED STOCKS

Ask for prices in quantity. Add for postage 8c per lb., 10c per 2 lbs.

The Dwarf Varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the richness of the land that was previously in good condition. Plant the dwarf in rows two feet apart; those varieties attaining a height of from two to three feet in rows three feet apart, and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, will answer finely.

THOMAS LAXTON PEAS

Extra Early Varieties

ALASKA — Our best rogued and hand-picked stock. Height 26 inches. The earliest Blue Pea. Very uniform in growth and time of ripening. The dark green color of pods makes this a most desirable sort for canners and shippers, as it can be carried long distances without losing color.

FIRST AND BEST—Height 2½ feet. Grown with special care. One of the earliest varieties.

PEDIGREE EXTRA EARLY—Introduced several years ago, has steadily increased in favor until now the truckers all want it. Early as Alaska, large pods, white seeded, very prolific. All mature at one time and can be gathered in one picking.

G. & T. CO.'S FIRST EARLY PEAS—This is the earliest of all and the most profitable early market Pea, because of its early maturity, uniformity of growth, and ripening, and its productiveness. It ripens up so evenly as only to require about two pickings to secure the crop.

NEW LARGE PODDED ALASKA—In general habit and growth resembles the well-known Alaska. Ripening about three days later, but with much longer and thicker pods. Handsomely shaped, of a beautiful dark green color, which is retained long after other varieties have lost their usefulness. The seed is somewhat dented. We strongly recommend this new Pea to gardeners, truckers and shippers as a most productive and large extra early variety.

BOUNTIFUL—Ripening about three to four days later than extra early sorts. Much longer and thicker pods. Beautifully shaped, dark green color which is retained after earlier varieties have turned grey. Seed dented, and we recommend this pea to all market gardeners and truckers.

PROLIFIC EARLY MARKET—New. Recently introduced. The finest, largest and most prolific extra early variety. Larger than Alaska, nearly as early, quite as prolific. Handsome pods, which command the highest prices. Just the pea for the trucker, market gardener and family garden.

EARLY BIRD—As large as Thomas Laxton or Gradus. Earlier than either. Vines about two feet high with large well-filled pods. Can be planted earlier than Thomas Laxton or other wrinkled varieties.

Large Podded Extra Early Variety

MARYLAND PRIDE PEAS—Introduced by us recently for the first time, giving universal satisfaction to the market gardeners and shippers. Pods large, of a deep green color, and nearly as early as Alaska.

THOMAS LAXTON—Habit and growth same as Gradus, but pods are a deeper green color, square at the ends, having fine flavor.

GRADUS or PROSPERITY — Pale Green Wrinkled. The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest, and of vigorous habit.

IMPROVED LAXTONIAN—A fine, large mammoth-podded wrinkled pea. Vine is dwarf and is fine for home garden. Dark green.

Medium and Late Varieties

EVERBEARING—Vines are about 2 feet high, of a branching character, forming as many as 10 stalks from a single root stalk. Peas large and of fine quality.

CHAMPION OF ENGLAND—Height 4 feet. An old favorite, rich flavored and very productive.

TELEPHONE—Height 3 to 4 feet. Large wrinkled seeds; pods large and well filled.

IMPROVED SUGAR MARROWFAT PEAS (Genuine Stock)—Height 3½ feet. Grows a strong vine, bears in abundance large filled pods. The truckers' favorite.

MELTING SUGAR (Edible Pods)—This variety is ahead of all other Sugar Peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad, handsome light green pods, which are so brittle that they snap without any strings.

TALL GRAY SUGAR (Edible Pods)—Cooked in the pods same as Snap Beans.

DWARF GRAY SUGAR (Edible Pode)—Quite a favorite.

Dwarf Wrinkled Varieties

NOTT'S EXCELSIOR—Is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large Peas, packed so closely together in the pods that the Peas are always more square than round. The pods are always well filled with Peas, which in sweetness and quality have no superior.

AMERICAN WONDER—Very luscious in flavor. Try it. Height 12 inches. The earliest wrinkled Pea; very productive and sweet. Better suited to the private than to the market garden.

PREMIUM GEM—Height 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf Pea; very luscious in flavor.

McLEAN'S LITTLE GEM—Similar to Premium Gem, but more straggling in growth; pods not so well filled; height 18 inches; seed, green wrinkled.

LITTLE MARVEL.—Very early. Has dark green vines, 18 to 20 in. tall. Very vigorous grower and produces pods 3 in. long. Dark green, very tender and sweet. Seed wrinkled.

PEAS (about)	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.
ALASKA	$0.20	$0.35	$1.75
FIRST AND BEST	.20	.35	1.75
PEDIGREE EXTRA EARLY	.20	.35	1.75
G. & T. CO.'S FIRST EARLY	.20	.35	1.75
NEW LARGE PODDED ALASKA	.25	.40	2.00
BOUNTIFUL	.25	.40	2.00
PROLIFIC EARLY MARKET	.20	.40	2.00
EARLY BIRD	.25	.40	2.25
MARYLAND PRIDE	.25	.40	2.50
THOMAS LAXTON	.25	.40	2.50
GRADUS or PROSPERITY	.25	.40	2.50
IMP. LAXTONIAN	.25	.40	2.50

PEAS (about)	(1 pt.) 1 lb.	(1 qt.) 2 lbs.	(1 pk.) 15 lbs.
NOTT'S EXCELSIOR	$0.25	$0.40	$2.50
AMERICAN WONDER	.25	.40	2.50
PREMIUM GEM	.25	.40	2.50
McLEAN'S LITTLE GEM	.25	.40	2.50
EVERBEARING	.25	.40	2.25
LITTLE MARVEL	.25	.40	2.50
CHAMPION OF ENGLAND	.25	.40	2.25
TELEPHONE	.25	.40	2.25
IMP. SUGAR MARROWFAT	.25	.40	2.25
MELTING SUGAR	.25	.50	
TALL GRAY SUGAR	.25	.50	
DWARF GRAY SUGAR	.25	.50	

Ask for Prices by the Bushel

G. & T. CO.'S MARYLAND SWEET POTATO

PUMPKIN

Plant in May, in hills 8 feet apart. Allot 10 seed to each hill, as bugs often destroy the young plants, but only allow 2 or 3 healthy plants to remain in each hill. They are usually planted in fields with corn or potatoes.

G. & T. CO.'S MARYLAND SWEET POTATO—This is the best table pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white striped. The flesh is a rich yellow color, solid, fine grained, very thick; flavor delicious.

LARGE CHEESE or KENTUCKY FIELD—A very large flattened pumpkin, averaging about 2 feet through. When ripened the skin is a rich cream color. Flesh yellow and of fine quality.

TENNESSEE SWEET POTATO—A splendid pie and cooking pumpkin. They grow pear-shaped, of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick, creamy white, dry and fine-grained, keeping well until late in the spring. When cooked resembles sweet potatoes, but much more delicious in taste.

CONNECTICUT FIELD—A fine, large, orange-colored variety used for field culture and stock feeding. The skin is smooth and ribbed and the flesh is brittle and sweet.

YELLOW CASHAW or CROOKNECK—Solid flesh, fine and sweet; keeps well.

RADISH

One Ounce Will Sow 100 Feet of Drill

For an early supply sow in hotbed in February. For a successive supply sow from middle of March to September. Radishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly, it will be hard, fibrous and disagreeably pungent.

EARLY SCARLET or PRUSSIAN GLOBE RADISH—This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of a globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of heat without becoming pithy.

FRENCH BREAKFAST—Of oval form; color scarlet, white tipped.

EARLY RED TURNIP—Turnip shaped, red skin, for forcing. Sometimes called Red Button Radish.

SCARLET OLIVE SHAPED RADISH—A showy half-long variety of pretty shape and bunches beautifully.

EARLY WHITE TIPPED SCARLET—An excellent variety for forcing, with very snort leaves; brignt scarlet in color, with a white tip.

Summer Varieties

MODEL PHILADELPHIA WHITE BOX—The best and earliest Round White Radish for early spring growing.

WHITE STRASBURG—This is becoming one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender.

GIANT STUTTGART—A splendid new variety, of excellent quality; withstands summer heat.

CHARTIER—A good variety for private or market garden purposes. Stands long before going to seed, and is tender and crisp.

DELICACY—Resembles White Strasburg, being more evenly shaped and smaller topped; grows into full size and perfection during the hottest months.

WHITE ICICLE—A beautiful long, slender radish, of recent introduction. Beautiful pearl-white color, firm and solid, slow to get woody. A good seller.

WHITE ICICLE

Long Varieties

WHITE VIENNA or LADY FINGER—This is unquestionably the finest long white Radish. Of most handsome shape, color a beautiful snowy white. It is of very rapid growth, and remarkably crisp, brittle and tender; equally desirable for the market or home garden.

LONG SCARLET (Finest Grown)—Very attractive and sells rapidly. Owing to its handsome shape, brilliant color and fine qualities, it commands a higher price and more ready sale than the ordinary Long Scarlet as generally sold.

Winter Varieties

WHITE CHINESE WINTER or CELESTIAL—This excellent variety is sold also as Chinese White Winter. The roots are long, cylindrical, with beautiful white skin and flesh, the whitest and usually the least pungent of the winter varieties. When fully matured the roots are six to nine inches long by about two and one-half to three and one-half inches in diameter. The flesh is compact and crisp.

CHINESE ROSE WINTER—Remarkably fine for winter use. The best of the winter sorts.

PUMPKIN	Pkt.	Oz.	¼ lb.	1 lb.
G. & T. CO.'S MARYLAND SWEET POTATO	$0.10	$0.15	$0.20	$0.70
LARGE CHEESE or KENTUCKY FIELD		.10	.20	.60
TENNESSEE SWEET POTATO	.10	.15	.20	.70
CONNECTICUT FIELD		.10	.20	.50
YELLOW CASHAW or CROOKNECK	.10	.15	.25	.70

RADISH	Pkt.	Oz.	¼ lb.	1 lb.
EARLY SCARLET or PRUSSIAN GLOBE	$0.10	$0.15	$0.25	$0.60
FRENCH BREAKFAST	.10	.15	.25	.70

RADISH	Pkt.	Oz.	¼ lb.	1 lb.
EARLY RED TURNIP	$0.10	$0.15	$0.25	$0.60
SCARLET OLIVE SHAPED	.10	.15	.25	.70
EARLY WHITE TIPPED SCARLET	.10	.15	.25	.70
WHITE STRASBURG	.10	.15	.30	.60
GIANT STUTTGART	.10	.15	.25	.75
CHARTIER	.10	.15	.25	.75
DELICACY	.10	.15	.25	.75
WHITE VIENNA or LADY FINGER	.10	.15	.25	.60
LONG SCARLET	.10	.15	.25	.60
WHITE ICICLE	.10	.15	.25	.70
WHITE CHINESE or CELESTIAL	.10	.15	.25	.75
CHINESE ROSE WINTER	.10	.15	.25	.60
MODEL WHITE BOX	.10	.15	.25	.70

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

BLOOMSDALE SAVOY SPINACH

SPINACH

This is quite an important crop with market gardeners, and one easily managed. For summer use, sow early in spring, in drills eight inches to one foot apart, covering the seed one inch deep. Select rich soil and manure liberally. A succession may be obtained by sowing at intervals of two weeks through the season. For very early spring sow in September, and protect the plants through the winter by top dressing.

DARK GREEN BLOOMSDALE SAVOY SPINACH.—Reselected; as its name implies, it has all the merits of the Reselected Bloomsdale Savoy plants. Very much crumpled, stands long before going to seed and only two days later than the Reselected Bloomsdale.

RESELECTED BLOOMSDALE SAVOY SPINACH.—Grown from pedigree stock, carefully rogued each year for the true Bloomsdale Savoy Spinach plants.

IMPROVED LONG STANDING BLOOMSDALE SAVOY SPINACH.—Reselected; a most desirable sort. very curly and dark green. Stands ten days longer than the other savoy types before going to seed. While it is a slow seeder, it requires a longer time before it is fit to cut.

VIRGINIA BLIGHT RESISTING CURLY BLOOMSDALE.—Fine for carrying over winter.

OLD DOMINION SPINACH.—Curled; originated in the Old Dominion of Virginia, at the Virginia Experiment Station. It is wilt-resistant and much slower to run to seed than the Virginia Blight-resistant Bloomsdale. Fine for sowing in late Fall to carry over for Spring cutting.

VICTORIA LONG STANDING.—Slow to run to seed, dark green in color. Good for spring sowing. Crumpled.

LONG SEASONS.—Long standing; slow to run to seed; crimped, dark green. For spring sowing.

TRIUMPH.—Long standing; slow seeder, crimped dark green. Good for spring sowing.

JULIANA.—Reselected. Long standing. The finest crinkled sort of the flat types. Lots of foliage and very shy seeder. Dark green foliage and fine for summer sowing.

NEW ZEALAND SPINACH.—The hot weather spinach will resist heat and make a strong growth during the summer. The plants will continue to grow until late fall, supplying all during summer and fall an abundance of rich green leaves. It cannot stand frost like other spinach; for family gardens only.

SQUASH

Early White Bush Scallop

The squashes are all quite tender, and therefore no progress can be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties and eight feet for the running varieties; put eight seeds to the hill, but don't allow over three to stand.

EARLY WHITE BUSH SCALLOP.—A desirable and marketable sort. Best known and most productive of all the summer sorts.

BENNING'S WHITE BUSH.—Tinted green. Same shape as White Bush, but preferred by growers, on account of its beautiful rich green-tinted color.

SUMMER CROOK NECK (Early).—Fine flavor; a desirable table sort.

WINTER CROOK NECK.—Flesh red, fine flavor; largely grown for winter use.

ITALIAN MARROW COCOZELLE.—This foreign variety grows to a length of 6 to 8 inches in about 65 days. The skin is dark green becoming light green, as it matures. The flesh is pale green, firm and tender.

HUBBARD. — The most popular winter squash. Fruit is oblong and pointed, heavily warted, dark green in color, with orange-colored flesh. Is remarkable for its keeping qualities.

BOSTON MARROW.—A popular variety, with large oval fruit. Skin bright reddish-orange, with light cream netting. Flesh orange, fine grained and of excellent quality. This is the most popular variety for canning. The fruit makes a rich orange-red and delicious flavored dish.

Boston Marrow

SALSIFY

SALSIFY OR VEGETABLE OYSTER

Sow in early spring in light, rich soil, in drills 14 inches apart, and thin the plants to six inches in the row. The roots will be ready for use in October and will sustain no injury by being left in the ground during the winter.

SANDWICH ISLAND MAMMOTH.—The new salsify grows fully twice the size of the old sort, and is superior in quality. Invaluable to market gardeners.

SPINACH	Pkt.	Oz.	¼ lb.	1 lb.
VIRGINIA BLIGHT RESISTING		$0.10	$0.15	$0.30
RESELECTED BLOOMSDALE SAVOY		.10	.15	.30
IMPROVED LONG STANDING BLOOMSDALE SAVOY		.10	.15	.30
DARK GREEN BLOOMSDALE SAVOY		.10	.15	.30
VICTORIA LONG STANDING		.10	.15	.30
LONG SEASONS		.10	.15	.30
TRIUMPH		.10	.15	.30
JULIANA		.10	.15	.30
NEW ZEALAND	$0.10	.15	.25	.75
OLD DOMINON	.10	.15	.25	.75
ASK FOR PRICES IN QUANTITY				
SQUASH				
EARLY WHITE BUSH	$0.10	$0.15	$0.25	$0.75
SUMMER CROOK NECK		.15	.25	.75
WINTER CROOK NECK		.15	.25	.75
HUBBARD	.10	.15	.25	.90
BOSTON MARROW	.10	.15	.20	.50
BENNING'S WHITE BUSH SQUASH	.10	.15	.25	.75

SQUASH	Pkt.	Oz.	¼ lb.	1 lb.
ITALIAN MARROW COCOZELLE	.10	.15	.30	1.00
SALSIFY				
SANDWICH ISLAND MAMMOTH	.10	.20	.50	1.75

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TOMATOES—Extra Early Varieties

For early fruit sow the seed first of March in the hotbed or in pots in a sunny exposure in the house. When the plants are about three or four inches high they should be set out four or five inches apart in another hotbed or cold frame into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground at a distance of four or five feet each way. Water freely at the time of transplanting and shelter from the sun for a few days until the plants are established.

Tomatoes will admit of training to stakes or trellis of various kinds. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plant up with strong, soft twine, pruning out quite freely as the vines advance in growth.

BONNIE BEST TOMATO.—As its name signifies, it is the best extra early tomato yet introduced. Is fully ten days earlier than Chalk's Early Jewel and, within a day or two, if not quite as early, as Spark's Earliana.

SUPER BONNIE.—Best state certified seed grown under contract.

CHALK'S EARLY JEWEL.—Deep fruited and solid. The growth is very compact. Fruit of uniformly good size; very solid; brightest scarlet, ripening up to the stem without cracks or green core; sweet flavor.

SPARK'S EARLIANA.—The earliest bright red Tomato; very large, smooth, color bright red; solid and excellent for slicing. Grows in clusters; slightly acid.

JOHN BAER.—New, early prolific. Fine flavor and shape; quite as early as **Bonnie Best.**

EARLY I.X.L. TOMATO.—Earliest, largest, most prolific.

BREAK O'DAY TOMATO—For early market only. This is a a new variety of early light red Tomato and was originated by Dr. F. J. Pritchard of the U. S. Department of Agriculture by crossing the Marvana with the Marglobe. The vines are very open growing and somewhat resemble Earliana in appearance. It is quite resistant to disease and can stand severe adverse weather conditions. The fruits are medium to large in size. Plant in rich soil.

BONNIE BEST TOMATO

THE GRIFFITH TOMATO.—This new Tomato came to our notice a few years ago, and we have been watching its good qualities, before offering it to the public. A fine cropper, red, wilt-resistant, large size and medium early.

Pkt. 10 cents, Oz. 50 cents, ¼ lb. $1.50, lb. $5.00

PRITCHARD.—This new tomato was originated by the United States Department of Agriculture, and the stock we offer was grown from seed furnished by them. Pritchard will prove profitable in districts where wilt is prevalent, and truck growers will find the smooth solid fruits particularly suitable for packing and shipping. Is wilt resistant, and it is of intermediate height of vine. It is a midseason or main crop variety, producing a heavy crop of deep scarlet globe-shaped fruits of good size and unusual solidity. The vines are of rugged growth and medium height with abundant foliage to protect the fruits from hot sun.

MARGLOBE TOMATO. — EARLY WILT - RESISTING VARIETY which originated from a cross between Marvel and Globe. This cross was made by an expert plant breeder of the United States Department of Agriculture. This excellent fruit has carried the equally desirable character of Wilt-Resistance to the extent that Marglobe will continue to bear fruit and retain its green foliage when planted on wilt-infested soil.

SUPER MARGLOBE.—CERTIFIELD SEED grown under contract especially for us.

MARGLOBE TOMATO

	Pkt.	Oz.	¼ lb.	1 lb.
SUPER BONNIE BEST CERTIFIED SEED	$0.10	$0.50	$1.50	$4.50
BONNIE BEST	.10	.30	.75	2.75
CHALK'S EARLY JEWEL	.10	.30	.75	2.75
JOHN BAER	.10	.30	.75	2.75
SPARK'S EARLIANA	.10	.30	.75	2.75
EARLY I. X. L.	.10	.30	.75	2.75
SUPER MARGLOBE CERTIFIED SEED	.10	.50	1.50	4.50
MARGLOBE	.10	.25	.75	2.75
BREAK-O-DAY	.10	.30	.75	2.75
PRITCHARD OR SCARLET TOPPER	.10	.40	1.00	4.00
THE GRIFFITH TOMATO	.10	.50	1.50	5.00

TOMATOES—Continued

MAIN CROP VARIETIES

THE NEW STONE TOMATO.—Ripens for main crop; is very large and of bright scarlet color; very smooth; with occasionally a specimen very slightly octagon-shaped, ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed (as its name indicates). It is an excellent shipper; not subject to rot.

MY MARYLAND TOMATO.—My Maryland is an exceptionally heavy yielder of wonderfully uniform, well shaped, solid, smooth, bright red tomato. It is a second early or main crop variety, and the fruit is entirely free from roughness and cracks.

GREATER BALTIMORE TOMATO.—Introduced in Baltimore some years ago. It makes a fine main crop tomato, of large size, bright scarlet color, ripening uniformly up to the stem.

One of the best main crop varieties for canner and market.

GRIFFITH & TURNER CO.'S WORLD'S FAIR.—The great canner. The six great points of this great canner — solidity, symmetry, handsome, bright red, ripens uniform, free from rot. Its shipping and keeping qualities are unexcelled.

WISDOM.—Recently introduced. Medium early; good cropper, fine size and flavor. Good for early or late planting.

OXHEART TOMATO.—New. The largest new variety of Tomato yet introduced. Some fruits weigh as much as one and a half pounds. It is ox-heart shaped, extremely solid and a purplish-scarlet color, with a mild sub-acid flavor. Fine for the home garden.

Pkt. 10 cents, Oz. 50 cents, ¼ lb. $2.00

KELLY RED TOMATO.—This splendid Red Tomato originated in Anne Arundel County, Md., and through its superior qualities it has become the Tomato most largely used in that section. It is large, meaty, an abundant yielder, and withstands unfavorable conditions remarkably well.

RED ROCK.—One of the finest for canning, being extraordinarily solid, smooth and red. No other variety has any better qualities than the Red Rock. Of fine flavor, very meaty and wonderfully free from acid. A heavy producer and good shipper. We think it is the coming tomato for main crop and canner's use.

PONDEROSA TOMATO.—Remarkable for size and heavy fruits, sometimes weighing over a pound. Deep red flesh, thick, solid and fine quality. Fine for the home garden and to grow on Trellis. Sometimes called "Beefsteak." There is nothing better for slicing.

GREATER BALTIMORE

SMALL FRUITED VARIETIES

PEAR-SHAPED RED.—
PEAR-SHAPED YELLOW.—Used for preserves and pickles.

YELLOW PLUM.—Color bright yellow; excellent for preserving.

TOMATO	Pkt.	Oz.	¼ lb.	1 lb.
WORLD'S FAIR	$0.10	$0.30	$0.75	$2.50
PONDEROSA	.10	.40	1.25	
PEAR-SHAPED RED	.10	.35	1.25	
PEAR-SHAPED YELLOW	.10	.35	1.25	
YELLOW PLUM	.10	.35	1.25	
NEW STONE	.10	.30	.75	2.00

TOMATO	Pkt.	Oz.	¼ lb.	1 lb.
GREATER BALTIMORE	.10	.30	.75	2.00
RED ROCK	.10	.30	.75	2.00
WISDOM	.10	.30	1.00	2.75
KELLY RED	.10	.30	.75	2.00
MY MARYLAND	.10	.30	.75	2.00

IMPROVED PURPLE OR RED TOP GLOBE TURNIP

TURNIP

For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart, the Rutabagas 30 inches. As the seed is very fine, it should be covered but slightly, excepting in very dry weather. Select light, and if possible, new soil and manure with plaster and ashes or phosphates. Should the young plants be troubled with insects, a sprinkling of slug shot will be beneficial. For fall and winter use the early kinds should be sown, from the middle of July to the middle of August, and the Rutabagas from the middle of June to the first of July, using from one to one and a half pounds of seed to the acre.

Improved Purple or Red Top Globe Turnip

This excellent table variety is globular in shape, of good size and very attractive appearance. The roots are large, purple or dark red above ground, white below. The flesh is white, fine grained and tender. The roots when in best condition for the table are about three inches in diameter, but can be grown much larger for stock feeding. This sort keeps well for so early a variety, and is one of the best for market use. It is also known as Red Top White Globe.

Red or Purple Top Flat Strap-Leaved Turnip

A very early, strap-leaved variety, very extensively used for the table. The leaves are few, entirely upright in growth. The roots are flat, of medium size, purple or dark red above ground, white below. The flesh is white, fine grained and tender. Roots when in best condition for table use are about two and one-half inches in diameter, but can be grown much larger for stock feeding. This sort is also known as Early Red Top, Strap-Leaved.

YELLOW ABERDEEN, or SCOTCH YELLOW—This is a highly approved **Cattle Turnip,** attaining a large size. It is solid, nutritious, a good keeper, and in every respect reliable.

LARGE AMBER or YELLOW GLOBE—Grows to a large size; flesh yellow, firm and fine grained. Excellent for either table use or feeding stock.

SEVEN TOP—For greens and salads. Used largely in the Southern States.

EXTRA EARLY PURPLE TOP MILAN—The earliest and handsomest Flat Turnip in cultivation; none equal to it for spring sowing.

WHITE FLAT—Differs from Red Top only in color.

EARLY WHITE EGG—A new variety of rapid growth; egg-shaped and white, as its name indicates.

COW HORN (Large Croppers)—This variety is pure white, excepting a dash of green at the crown, and in shape is long, like the carrot.

SOUTHERN PRIZE—True strain of the favorite Turnip for greens in Virginia and Carolinas. Valued also for its bulk.

RUTABAGAS OR SWEDES—The Swede Turnips, or Rutabagas, grow much larger in size, and are of greater value for stock feeding than ordinary turnips. Every farmer and stock-raiser should grow Rutabagas and Stock Beets for winter feeding.

GRIFFITH & TURNER CO.'S IMPROVED PURPLE TOP—Yellow-fleshed. A standard field variety for stock and fine for family use. This splendid Swede is the hardiest, most productive and most nutritious variety in cultivation.

TURNIPS	Oz.	¼ Lb.	1 Lb.
IMPROVED PURPLE OR RED TOP GLOBE	$0.10	$0.15	$0.40
PURPLE TOP STRAP-LEAF	.10	.15	.40
YELLOW ABERDEEN	.10	.15	.40
LARGE AMBER OR YELLOW GLOBE	.10	.15	.40
SEVEN TOP	.10	.15	.40
EXTRA EARLY PURPLE TOP MILAN	.10	.15	.40
WHITE FLAT	.10	.15	.40
EARLY WHITE EGG	.10	.15	.40
COW HORN	.10	.15	.40
SOUTHERN PRIZE	.10	.15	.40
RUTABAGAS			
G. & T. CO.'S IMPROVED PURPLE TOP	.10	.15	.50

SEED POTATOES—MAINE OR NORTHERN GROWN

ALL POTATOES SOLD BY WEIGHT ONLY; BUSHEL, 60 POUNDS.

The soil best suited to the Potato is a rich, sandy loam; but it seems to thrive in almost any soil or climate. The Potato being a gross feeder requires a liberal application of manure. If stable manure is to be used it should be well-rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destructive influence of wire worms. Plant as early in the spring as the ground can be thoroughly worked in rows three feet apart and one foot in the rows, covering in light, warm soil about four inches, and in cold wet ground three inches deep; draw the earth to the plants as they advance in growth. The soil should be constantly stirred through the season to prevent the surface from baking.

G. & T. CO.'S EXTRA EARLY PRIZE—This potato is in all respects a very popular early sort. It proved to be early and productive; also found its eating qualities first class. We consider it the best early potato on the market today.

IRISH COBBLER—Very productive, matures early; shape chunky, eyes strong and deep set, skin netted, flesh white, quality very superior. After years' experience we find that it is a very superior variety. Don't fail to get it.

RED BLISS TRIUMPH.—This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose; is much more productive and matures its crop at least a week in advance of the Early Rose.

SPAULDING ROSE.—The Early Rose led the list for over 30 years, and is today one of the best early market Potatoes. Our stock of this is grown on new land near Houlton, Maine; is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years. Remember that this stock is not to be confounded with the old run-out Rose grown in other sections.

GREEN MOUNTAIN—This is a most excellent late Potato; it does remarably well on poor soils, and is very free from disease; it resists drought wonderfully well and produces tubers of large size and attractive appearance; flesh white. It is a good keeper, and when put away in the fall will keep well until spring. Matures in 140 days.

Irish Cobbler Potatoes.

PROSPERITY.—A middle-crop variety, one of the handsomest large Potatoes ever produced. The yield is immense, and even under unfavorable circumstances can be relied on; flesh very white; cooks dry and mealy.

RURAL NEW YORKER, No. 2.—A valulable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly.

Price, per Peck, 60c. Postage extra. Write for price per Bushel and Barrel Lots.

CHOICE JERSEY SWEET POTATOES DURING SEASON

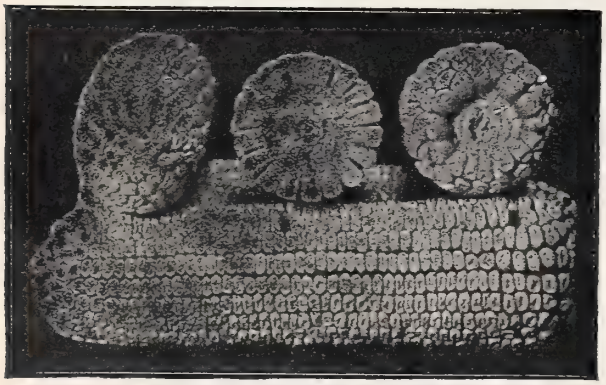
FIELD CORN

Maryland Yellow Dent Corn.

CHESTNUT GROVE YELLOW CORN—The ears are large, deep, medium-sized grain, and of beautiful color. **1¾ lbs. (about 1 qt.) 15c. 14 lbs. (about 1 pk.) 60c. 56 lbs. (about 1 bu.) $2.25.**

NEW MARYLAND YELLOW DENT—The grains are unusually deep, ears large, stalks grow from 7 to 10 feet high, does not exhaust soil so much. **1¾ lb. (about 1 qt.) 15c. 14 lbs. (about 1 pk.) 60c. 56 lbs. (about 1 bu.) $2.25.**

REID'S YELLOW DENT CORN—Matures in 100 to 105 days. Has a rich yellow color, very solid heavy ears from 8 to 12 inches long, with 16 to 18 rows of grain. The grains are deep on a small red cob. Fodder from 7 to 8½ feet high, and produces a great many stalks with two ears. A fine early corn. **1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) 65c. 56 lbs. (about 1 bu.) $2.25.**



Maryland White Dent Corn.

IMPROVED EARLY LEAMING—An early selected variety of yellow corn; small grains, weighty and productive. Highly esteemed in Maryland and Pennsylvania. One of the earliest varieties of yellow corn in cultivation. **1¾ lbs. (about 1 qt.) 15c. 14 lbs. (about 1 pk.) 60c. 56 lbs. (about 1 bu.) $2.25.**

90-DAY YELLOW—This is an excellent quick-growing variety. May be planted after peas are taken off, and makes a good crop. Largely used by truckers around Baltimore. **1¾ lbs. (about 1 qt.) 15c. 14 lbs. (about 1 pk.) 60c. 56 lbs. (about 1 bu.) $2.25.**

SMOKY YELLOW DENT—The earliest dent Corn today; a good yielder. It is the most beautifully colored up corn in cultivation. Sides of grain red, with white cap. Grows strong, quick and has splendid seven to eight foot fodder. Will mature in 75 to 80 days. **Price: 1¾ lbs. (about 1 qt.) 15c. 14 lbs. (about 1 pk.) 60c. 56 lbs. (about 1 bu.) $2.25.**

G. & T. CO.'S IMPROVED MARYLAND WHITE DENT CORN—After years of careful selection we have secured this improved White Field Corn; grows good-sized ears and makes splendid meal. Produces better crops on average land than most any other variety. **1¾ lbs. (about 1 qt.) 15c. 14 lbs. (about 1 pk.) 60c. 56 lbs. (about 1 bu.) $2.25.**

BOONE COUNTY WHITE—We believe this to be the best all around White Corn in existence. It is a heavy yielder; has large ears, deep grain, small cob and produces good-sized fodder, free from barren stalks. Matures in 110 to 115 days. **Prices: 1¾ lbs. (about 1 qt.) 15c. 14 lbs. (about 1 pk.) 60c. 56 lbs. (about 1 bu.) $2.25. Postage, 8c per lb. extra.**

JOHNSON COUNTY WHITE CORN—A favorite white Corn in the Western Corn Belt. Ears same size as Boone Co. White. Good deep grain on small, white cobs. It will shell from six to seven bushels per barrel.

We recommend it as a fine general main crop sort. Will mature in about 120 days. Has abundant foliage, which makes it also valuable for ensilage purposes. **1¾ lbs. (about 1 qt.) 15c. 14 lbs. (about 1 pk.) 60c. 56 lbs. (about 1 bu.) $2.25.**

90-DAY CORN (White with red cob)—This is an elegant corn for truckers and market gardeners. as it is as good a seller as green corn. Is suitable for either early or late crop. **1¾ lbs. (about 1 qt.) 20c. 14 lbs. (about 1 pk.) 65c. 56 lbs. about 1 bu.) $2.25.**

Postage, 8c per lb. extra.

EUREKA WHITE ENSILAGE CORN—Specially adapted for ensilage. **56 lbs. (about 1 bushel) $2.25.**

POPCORN (White Varieties)—10c per lb.

POPCORN POPPERS—25c each.

BROOM CORN—To grow Broom Corn successfully the ground should be rich and well prepared. Plant seeds in rows 3 feet apart by 18 inches. **Price: 1 lb., 30c.**

SEED WHEAT AND RYE

We can offer choice stocks of Seed Wheat and Rye, recleaned and at reasonable prices. Write us August 1 for special prices for fall sowing.

SEED BUCKWHEAT

JAPANESE—The best sort. The plants are large and vigorous, maturing their seed early. One-half the seed is required per acre.

WHITE-SEED OATS

For spring sowing. Thirty-two pounds to the bushel. Extra heavy fancy White Oats. Ask for prices.

WINTER TURF OATS

Perfectly hardy in the Southern and middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine heavy grain weighing from 30 to 40 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop. Write for prices first of August.

BARLEY

BEARDLESS FALL BARLEY—A fall variety without beards. Ask for prices.

BEARDED FALL BARLEY—A heavy yielder, much better than spring sown. Sow in September for best results. **Ask for prices.**

WRITE FOR PRICES OF FIELD SEEDS IN QUANTITY

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

FORAGE AND SILO SEEDS

COW PEAS

The great soil enricher. Makes poor land rich and good land better. They also make the best quality of Hay when cured.

The sowing of **COW PEAS** is one of the cheapest as well as the best means of improving the soil. They can be turned down for green manuring, or, if allowed to ripen, cut and cure for hay; turn down roots, which will give as good results as when whole plant is used.

BLACK—This is the standard variety, makes a fine growth, both of vine and leaves, and a good yield of peas.

WHIPPORWILL—A favorite, early, upright-growing variety, more largely used and sold than any other kind.

NEW ERA—An early maturing variety which has proved very popular and satisfactory.

MIXED COW PEAS—Are fine for forage or improving the soil generally. Sold at a lower price than the named varieties.

Cow Peas

SOJA BEANS

Unsurpassed in nutritive value for feeding; also makes a splendid soil improver.

MAMMOTH YELLOW SOJA—The largest-growing and most popular of soja beans for forage purposes. A little later in maturity than other kinds.

WILSON BLACK SOJA BEANS—One of the best, in our opinion, for the Northern States, where a quick, early variety is desired.

VIRGINIA BROWN SOJA BEANS—Coming into use very extensively; about the same size as the Wilson.

HOLLYBROOK SOJA BEANS—Makes a quicker growth and matures its crop two or three weeks earlier than the Mammoth Yellow Soja.

VETCHES OR TARES

SPRING VETCHES (vicia sativa).—Closely associated with peas in character. Highly valuable for soiling, for green manuring. Use 30 to 50 pounds to the acre. Sow in spring while ground is cool and moist. **Pound, 10c.**

WINTER VETCHES (vicia villiosa).—Also called Sand Vetch or Hairy Vetch. Recommended for fall sowing with rye, as in many localities in the North it is hardy. Use 30 to 50 pounds per acre. **Price on application.**

FLAXSEED.—Lb., 12c. 3 lbs., 35c. Postage extra.

SORGHUM, OR SUGAR CANE FOR FODDER

EARLY AMBER grows 10 to 12 inches tall, which is relished by all kinds of stock.

KAFFIR CORN.—The heads contain small white seeds, which are greedily eaten by horses and cattle.

GERMAN MILLET.—A fine, quick-growing summer Hay crop. Should be sown thick, not less than one bushel per acre. Cut while in flower. It should be sown any time after the middle of May up to first of August.

CANADA FIELD PEAS.—Sown in February, March or April, with a small quantity of oats, they make forage. Sow 1 to 1½ bushels per acre broadcast with half bushel of oats.

RUSSIAN SUNFLOWER.—Is highly recommended for poultry—the best egg-producing food known. **Lb., 10c.**

DWARF ESSEX RAPE.—It can be sown all through the season; being perfectly hardy. 5 pounds to the acre, or 2 to 3 pounds in drills. It is unequalled as a pasture for sheep, and as a fattening food for all kinds of livestock. **Lb., 10c., by express, 10 lbs. and over, 8c. lb., not prepaid; $7.00 per 100 lbs.**

ASK FOR QUOTATIONS ON ABOVE.

HIGH-GRADE GRASS SEEDS

TIMOTHY (Phleum Pratense).—This makes one of the most popular, nutritious and salable of hay grasses. It is best adapted for sowing on clay or heavy loams, low lands, or in mountainous districts, although it will do well on any good, stiff, loamy soils. The best clover to sow with Timothy is Alsike, as they mature and ripen with Timothy. **Bushel, 45 lbs.**

RED TOP, OR HERD'S GRASS (Agrosis Vulgaris).—This grass makes excellent pasturage and good crop of hay. Is excellently adapted for seeding with Timothy for hay, and furnishes excellent pasturage afterwards. When it gets well established it will gradually supplant other grasses. The grades of seed usually sold are:

UNHULLED RED TOP.—Seed in hull but free of chaff and impurities. Sow 2 to 3 bushels to the acre; 14 pounds to the bushel.

FANCY CLEANED RED TOP.—Hulled seed, free from all impurities. We would advise our customers to sow the Extra Cleaned Unhulled or Fancy Cleaned Seed. Sow 12 to 15 pounds to the acre. **32 Lbs. to the Bushel.**

TALL MEADOW OAT GRASS (Avena elatior).—Relished by cattle, early and late. Height, 2 to 4 feet. 50 pounds to the acre. (10 pounds to bushel.)

KENTUCKY BLUE GRASS (Poa Praetensis).—It is rather sensitive to heat, but not so to cold weather, and on this account does its best in the fall, winter and spring. It grows slowly at first, forms a very compact turf, making a fine pasturage when once established. It is much the best, however, to combine other grasses with it for either lawn or pasturage. Sow in the spring or fall. **14 Lbs. to Bushel.**

ORCHARD GRASS (Dactylis glomerata).—One of the best and most reliable grasses for hay or pasturage. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. It is of quick growth and relished by stock, especially when young, and bears close grazing. It makes excellent hay. It should be cut when in blossom, as the hay is injured if the seed is allowed to ripen. Sow 3 bushels per acre if sown alone; with Red Top, one and one-half bushels of Orchard and seven pounds of Red Top are the quantities usually sown. **14 Lbs. to Bushel.**

CREEPING BENT GRASS (Agrotis stolonifera).—Excellent for lawns; succeeds well in all conditions; makes a low, velvety growth.

MEADOW FESCUE, RANDALL, or ENGLISH BLUE GRASS (Festuca pratensis).—It makes a very good pasturage grass, and is particularly valuable for fall and winter pasturage, as it remains green throughout the winter.

RED FESCUE.—It is a densely tufted perennial grass for dry, sandy and rocky soil where scarcely any other species will grow. It roots deeply, and forms a dense short tuft, suitable for lawns and pleasure grounds where the soil is sandy. It affords wholesome food for all cattle, especially sheep. Sow about 30 pounds per acre. **14 Lbs. to Bushel.**

ITALIAN RYE GRASS.—Is an annual and should be sown every year at the rate of 50 pounds per acre. It can be sown during August, September or October. **14 Lbs. to Bushel.**

ENGLISH RYE GRASS (Lolium Perenne).—This makes a quick growth very early in the spring, and is adapted for cool, moist locations. 60 pounds to the acre. **14 Lbs. to Bushel.**

SUDAN GRASS.—A tall growing annual grass, suitable for Hay. It grows, when sown broadcast, 3 to 5 feet high, according to the richness of soil. If sown middle of May, will make 2 to 3 cuttings of fine Hay, relished by all kinds of stock. Sow 30 to 40 pounds per acre broadcast. **Lb., 12c. For larger quantities, ask for prices.**

ASK FOR PRICES FOR ANY OF THE ABOVE.

Loma, the scientifically-prepared plant food, will give you results that are startling. Lawns velvety green; flowering plants sturdy, full-bloomed and tall. Loma is rich in nitrogen.

1-lb. can	$0.15	25-lb. bag	$1.50
5-lb. can	.50	50-lb. bag	2.50
10-lb. bag	.85	100-lb. bag	4.00

SOIL-PREP

Soil-Prep, a scientific soil conditioner, rich in humus and plant food value. Will texturize light sandy and heavy clay soils.

5-lb. bag	$0.30	50-lb. bag	$1.75
10-lb. bag	.50	100-lb. bag	2.50
25-lb. bag	1.00		

Fertilizer for the Farm, Lawn and Garden
All Plant Life Must Have Food

Like human beings they require a balanced diet for normal, healthy growth.

Vigoro, the complete, scientifically prepared plant food, contains all the nourishment necessary to produce thick, velvety-green lawns; large, richly colored flowers; early delicious vegetables; and healthy, full-foliaged trees.

Vigoro is clean, odorless, and easy to use. It's economical too. Full directions in every bag.

Prices

100-lb. bag	$4.00
50-lb. bag	2.50
25-lb. bag	1.50
10-lb. bag	.85
5-lb. pkg	.50
12-oz. pkg	.10

Prices are f. o. b. Baltimore.

HOW MUCH VIGORO TO USE

30 ft. x 125 ft. needs 75 lbs.
50 ft. x 125 ft. needs 150 lbs.
75 ft. x 150 ft. needs 250 lbs.
100 ft. x 150 ft. needs 350 lbs.
150 ft. x. 150 ft. needs 675 lbs.

VIGORO
Complete plant food

A product of Swift & Company

For Lawns, Gardens, Flowers, Shrubbery and Trees

SOFT GROUND BONE—The old standby. Made from softer material than the regular ground bone. Contains some meat and blood. Fine for lawns, roses, shrubbery, and flowers. **Price, 5 lbs., 25c; 10 lbs., 45c; 25 lbs., $1.00; 50 lbs., $1.50; 100 lb. bag, $2.50; 167 lb. bag, $4.00.**

PURE BONE MEAL—A good article for lawns, shrubbery, etc. **Price, 5 lbs., 30c; 10 lbs., 50c; 25 lbs., $1.25; 50 lbs., $1.75; 100 lbs., $2.50; 167 lb. bag, $4.10.**

AMMONIATED ALKALINE PLANT FOOD—Our old standby for summer crops is used successfully for Peas, Beans, Corn and other summer crops. **Bag of 167 lbs., $2.25.**

AMMONIATED BUTCHERS BONE BRAND PHOSPHATE—Is made largely from slaughter house material, and used largely on Wheat, Grass, Corn and Tomatoes. **Bag of 167 lbs., $2.75.**

SPECIAL POTATO FERTILIZER—Made especially for Potatoes, being high in Potash and Phosphoric Acid. **Bag of 167 lbs., $2.50.**

TOMATO GROWER FERTILIZER—Fine for Tomatoes. **Bag of 167 lbs., $2.75.**

SPECIAL TRUCK MIXTURE—A high grade complete fertilizer, for trucker's use in growing Vegetables. **Bag of 167 lbs., $3.00.**

DRIED BLOOD—Fine for greenhouse potted plants, etc. Must be used sparingly and carefully. **5 lbs., 40c; 10 lbs., 75c; 25 lbs., $1.50; 50 lbs., $2.25; 100 lbs., $3.50.**

NITRATE OF SODA—A great stimulant. Used for top dressing lawns. **5 lbs., 30c; 10 lbs., 50c; 25 lbs., $1.00; 50 lbs. $1.75; 100 lbs., $3.00.**

SULPHATE OF AMMONIA—Used for same purpose as above, but slower and stronger. **5 lbs., 30c; 10 lbs., 50c; 25 lbs., $1.00; 50 lbs., $1.75; 100 lbs., $3.00. Ask for price in ton lots.**

LAND PLASTER. In bags of 200 lbs. each $2.25.

HIGH GRADE ACID PHOSPHATE. Bags of 167 lbs., $1.75

KAINIT AND MURIATE POTASH

Prices on Application.

PULVERIZED SHEEP MANURE HAS NO RIVAL

Remember that Pulverized Sheep Manure is aged for several years and will not burn your plants, no matter in what quantities you use it—but as it is highly concentrated, a little goes a long way. Used for top dressing, mulching, etc.

Valuable in a run-down city garden, as it adds humus and vegetable matter which are essential for all vegetation. It may also be used at the rate of 40 to 50 pounds to every 1000 square feet in a dry form, or 500 to 1000 pounds per acre.

Makes the richest and safest liquid manure, using 1 pound to 5 gallons of water once a week.

For Greenhouse Plants mix one part to about 10 parts of soil.

Price, 5 lbs., 25c; 10 lbs., 45c; 25 lbs., 85c; 50 lbs., $1.25; 100 lbs., $2.25. Special price in one-half ton, tons and carload.

VITA-VIM

A non-acid, high-test plant food, made from high-grade materials, carefully selected and processed. Dry and granular. Easy to use. Does not have to be watered immediately after being applied. Produces full and hardy growth.

For lawns, flowers, vegetable gardens, shrubs and trees. Ideal for the safe feeding of greenhouse plants.

Price, 25 lb. Bags, $1.50; 50 lb. Bags, $2.50; Bag of 100 lbs., $4.00.

HYPER-HUMUS

Fine for Lawns, Shrubbery and Flowers. It conserves moisture, puts organic matter in the soil and cultivates bacteria. **100 lb. bag, $2.00; 500 lbs., $8.75; 1000 lbs., $15.00.**

HYDRATED LIME

For sweeting soils and improving the mechanical condition of the soil. Is free from injurious qualities.

Hydrated Lime is as essential for producing some crops as a direct plant food.

It is indispensable for the growth of all Clover, Alfalfa and Lawn Grasses.

Hydrated Lime not only produces chemical changes, but also has a mechanical effect on the land. It will make clay soils more friable and open to both air and water and less susceptible to drouth.

In light soils its action has a cementing tendency and helps the land to retain moisture. **Price, per bag of 50 lbs., 50c.**

ADCO

Artificial Manure is a powder, which when mixed with almost any non-woody vegetable waste, such as straw, leaves, weeds, and kept moist, gradually converts the mass into real manure fully equal to the barn-yard product in fertilizing power, but free from foul odor, weed seeds, flies, etc. Farmers, by utilizing corn stalks, straw, weeds, vegetable vines, can produce manure without the aid of livestock.

The refuse should be arranged in layers, each layer being thoroughly saturated with water and then sprinkled with Adco in the proportion of 1 pound Adco to 25 pounds refuse, when dry.

Nothing further is required beyond keeping the heap moist and wet, except perhaps turning it over once or twice to allow air to have access to the fermenting mass.

In three to six months it will be converted into real manure of excellent quality.

25 pounds Adco is enough for 12 large wheelbarrow loads of garden waste, making ½ ton manure. **Price, $2.00.**

150 pounds Adco is enough for a bed 10x10 feet deep and 6 feet high, will make about 3 tons manure. **Price, $10.50.**

CLOVER SEEDS

RECLEANED RED CLOVER—We take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed. **15c. lb.**

ALSIKE OR SWEDISH CLOVER—Hardiest of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasturage. **Lb., 18c.**

WHITE DUTCH CLOVER—Thrives most everywhere. The best to sow with lawn grass and valuable to sow with blue grass for permanent pastures. **¼ lb., 15c; ½ lb., 25c; 1 lb., 45c. By mail, lb., 50c. 10 lbs., by express, not prepaid, $3.50.**

LUCERNE OR ALFALFA CLOVER—One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Prepare the land thoroughly and sow, either fall or spring, 20 pounds to the acre. **Lb., 25c.**

CRIMSON CLOVER (The Great Nitrogen Gatherer)—For hay it must be cut before it comes into full bloom, as otherwise it may cause hair-balls to form in the animal's stomach. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October. 15 pounds to the acre. **12c per lb.**

GRASS MIXTURE FOR HAY AND PERMANENT PASTURES

Prepared especially to meet the demands for a mixture that will be desirable for cutting for Hay or to use for Pasture, and contains such grasses as are best adapted for these purposes. In ordering please state whether you want a mixture for upland or low ground.

MIXTURE FOR UPLAND—14 pounds to the bushel, 3 bushels to the acre. **Per bushel, $2.25; 10 bushels for $20.00.**

MIXTURE FOR LOWLAND—14 pounds to the bushel, 3 bushels to the acre. **Per bushel, $2.25; 10 bushels for $20.00.**

WRITE FOR SPECIAL PRICES ON CLOVERS.

HORTICULTURAL TOOLS AND SUPPLIES

GRASS HOOK

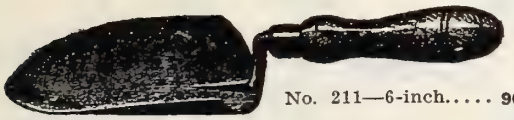
No. 2 Austrian or German Grass Hook	$0.60
Best English Grass—No. 2	.60
Best English Grass—No. 3	.75
Best English Hedge or Grass Hooks—No. 4	1.00
American—plain	.50
Lawn King—polished	.75
Long Handle Grass Hook	1.00

GARDEN TROWELS

No. 212—American, 16-gauge tool steel, 6-inch blade. a handle that will not come out in dry weather. **Price, 30c.**

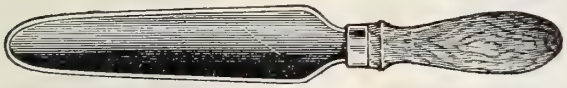
No. 213—American, 6-inch bright steel blade, plain handle, **15c.**

ENGLISH PATTERN FORGED STEEL GARDEN TROWEL



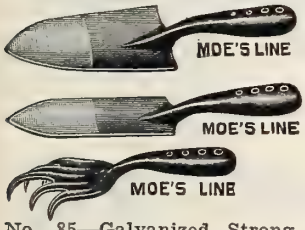
No. 211—6-inch..... **90c**

TRANSPLANTING TROWEL



No. 217—5-inch blade.....20c.
No. 217—8-inch blade.....35c

Moe's All Steel Garden Trowels and Weeders



Heavy pressed steel black enamel finish with polished points. No loose wooden handles.

No. 80—Garden trowel, 6-in. blade. Each..... **10c**
No. 81 — Transplanting trowel. Each..... **10c**
No. 82—Garden Weeder. Each **10c**

No. 85—Galvanized Strong Steel Trowel, one piece, **very durable.** Parcel Post weight, 1 pound. **Price 10c.**

EUREKA HAND WEEDER

A Very Handy and Useful Weeder.

No. E—Grip handle.....45c.
No. EL—2-foot handle.....55c.
Parcel post weight, 1 pound.

LARGE HAND WEEDER

Parcel post weight, 1 pound.

No. 400—4 Prong Hand Weeder.....35c
No. G—Solid Steel Hand Weeder, 3 Prong.....50c

GRASWIP

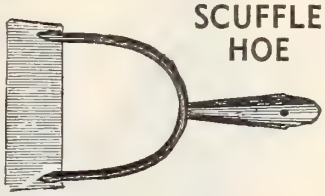
No. 165 Graswip is made of Forged Tool Steel, and has two cutting edges, you swing it like a golf stick and it cuts both ways on the forward and backward stroke.

A very handy tool in high grass and for cutting weeds. It is easy to operate in a standing position.

Wonderful to use on dandelions and plantain on the lawn, when a lawn mower will not get the seed heads.

Price **$1.05**

SCUFFLE HOE

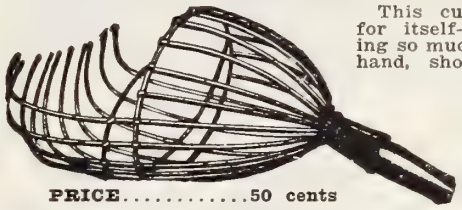


4-inch	$ .70
6-inch	.80
8-inch	1.00

GRAPE SCISSORS

No. 4774—Grape Pickers	$ .60
Flower Scissors	1.75

FRUIT PICKER



This cut almost speaks for itself—the device, being so much like the human hand, shows at once the utility of the article. As a Fruit Picker it has no superior. It is made of heavy wire, and easily adjusted to a pole.

PRICE.....50 cents

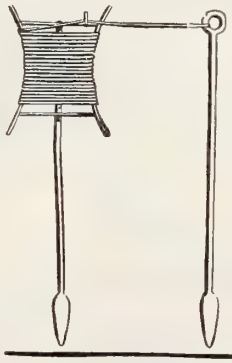
PRUNING KNIVES

No. 1001—Cocoa Handle.....**$1.00**

Bone Handle Budding Knife, No. S1944W..... **1.00**

BARLOW BUDDING KNIVES

No. 1157¼.....**$0.50**



GARDEN REELS

Every gardener should have one of these handy reels. Straight rows add greatly to the looks of the garden. These reels are made of heavy iron, and will last a life time.

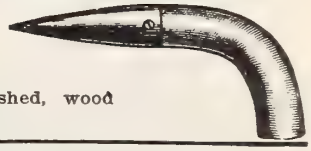
Large size reel to hold 100 feet of line **$2.50**
No. 1 Garden Reel..... **1.50**

GARDEN LINE.

Best grade 3/16-in. Cotton Garden Line, in any desired length.

Price, per 100 feet..... ...**$1.50**

DIBBERS



For transferring plants. By far the best thing for the purpose ever introduced.

Right-angle shape, steel-polished, wood handle, **75c.**

ASPARAGUS KNIFE

Made of solid steel; see the cutting point. Price.. . **45c each.**
Parcel post weight, **1** lb.

ASPARAGUS BUNCHER

Put your asparagus up in bunches, with this Improved Asparagus Buncher. It is adjustable for all lengths of bundles, correct in design and quick in operation. It makes a well-formed, compact bundle, adding greatly to the looks of the vegetable.

Parcel post wt. 5 lbs. Price, each....**$4.25**

HORTICULTURAL TOOLS AND SUPPLIES—Continued

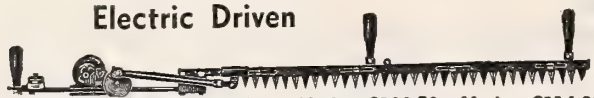
"LITTLE WONDER" HEDGE TRIMMER

Hedge will improve in appearance after it is trimmed with the "Little Wonder," by reason of the straight cutting, no dips or round corners and other common faults often noticed in hedge trimmed by hand shears.

It is not near as hard work trimming, with the "Little Wonder" as the hand shears, it does not tire the wrists; in fact, it is a pleasure to walk along the hedge and turn the crank and see the hedge fly; it really operates astonishingly easy.

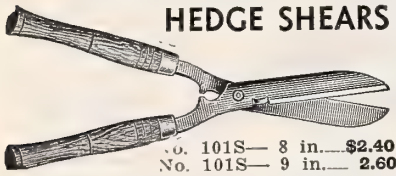
30-inch machine $25.00
40-inch machine 27.50
60-inch machine 35.00

Electric Driven



Junior—25 in. **$65.00. Senior**—40 in. **$106.50,** 60 in. **$114.00**

HEDGE SHEARS



Plain with notch and through tang, bolted.

No. 101— 6½ in. $0.95
No. 101— 8 in. 2.20
No. 101— 9 in. 2.40
No. 101—10 in. 2.60
No. 101—12 in. 3.10

Serrated edge, with notch and through tang, bolted.

No. 101S— 8 in. $2.40
No. 101S— 9 in. 2.60
No. 101S—10 in. 2.80
No. 101S—12 in. 3.25

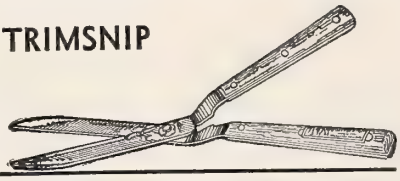
LOPPING SHEARS

The Baltimore Draw Cut Shears is extra strong, and will cut large limbs with the least exertion.

The No. 5406 Shear is light and strong and is very handy for light work. It will not tire you to handle it.

No. 5406—20-inch Handles $1.60
No. 5406—24-inch Handles 2.00
No. 5402—Baltimore Draw Cut, 24-inch handles 3.00
No. 5403—Baltimore Draw Cut, 22-inch handles 2.75
No. 5408—Forged Solid Tool, Steel Blade, 24-inch handles 2.50
No. 730—All Alloy Steel Lopping Shear, 30-inch handles 3.00

TRIMSNIP



This hedge trimming shear is hand forged, light and very strong.

The handles are riveted on in a way they never come loose.

8-inch $2.25
9-inch 2.75

ONE HAND PRUNING SHEARS

No. 06—Volute Spring Pruners $0.50
No. 10—Ladies' Small Pruners ..... .60
No. 30—9-inch California Pattern Pruners ..... .75
No. 150P—California Pattern, full polish 1.00
No. 260—Double Flat Spring Pruners 1.10
No. 39P—Full Polished Pruners, French, with wheel 1.25
No. 119—Snap Cut, outcuts all others 1.65

Parcel Post Weight 1 Pound.

DOO-KLIP GRASS SHEARS

DOO-KLIP GRASS SHEARS have a unique up-and-down action which supplies the blades with maximum cutting power. Always easy running, they prevent blisters, skinned knuckles and grass stains, and allow the hand and arm to be used in a free and natural position.

Price, $1.50.

Doo-Klip Pruners $1.25

Water's Tree Pruners

4 feet $1.50
6 feet 1.60
8 feet 1.80
10 feet 2.00
12 feet 2.20
14 feet 2.40
Extra Knives ..... .20

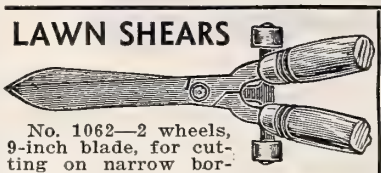
Telegraph Tree Pruners

Price, without pole $1.50
Lineman Tree Pruner, No. 2 ..... $4.00

GRASS SHEARS

Bent Handle, No. 150 ..... 30c.
Trowel Handle, No. 460 ..... 50c.

LAWN SHEARS

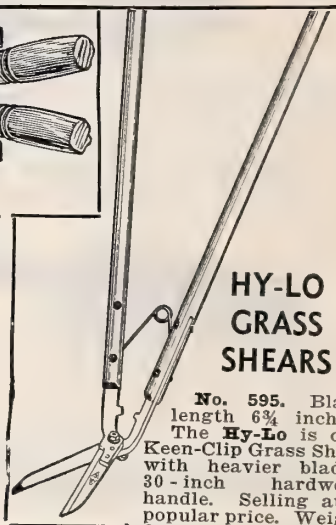


No. 1062—2 wheels, 9-inch blade, for cutting on narrow borders, under fences and shrubs $4.50

BORDER SHEARS

No. 105 With Wheel Price, $4.50

HY-LO GRASS SHEARS



No. 595. Blade length 6¾ inches. The **Hy-Lo** is our Keen-Clip Grass Shear with heavier blades. 30-inch hardwood handle. Selling at a popular price. Weight 2 pounds.

Price $1.75

Sheep Shears

No. 055E — 5½-inch Polished Blades 1.00
No. 012E — 5½-inch Polished Blades 1.50
No. 1914 — 6-inch Blades, full-polished 1.75

PRUNING SAWS

No. 16—14 in.
Price, $2.00

PRUNING SAW

No. 3 Saws.		No. 1 Saws.	
16-inch double	$1.65	16-inch single	$1.60
18-inch double	1.80	18-inch single	1.75
20-inch double	1.90	20-inch single	1.85

GRASSNIPPERS

Here is a tool that will cut grass easier than a shear. Built like hair cutters. Blades are forged steel, warranted. Handle is malleable, will not break.

No. 017—Green ... $0.50
No. 227 ..... 1.60

FLORISTS AND GARDEN SUPPLIES

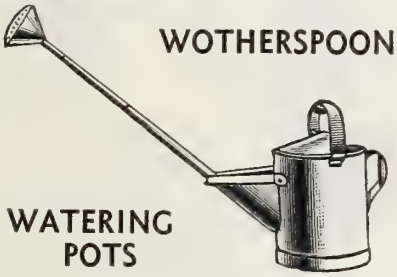
IRON CLAD WATERING POTS

4-qt.	$0.65
6-qt.	.80
8-qt.	.90
10-qt.	1.00
12-qt.	1.20
16-qt.	1.50

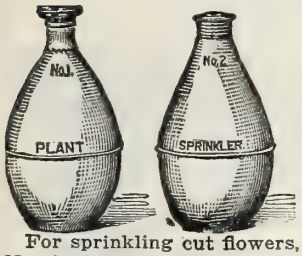
These pots are made from the best grade of galvanized iron, and are very heavy and strong. The long spout makes them very desirable for greenhouse and flower bed use. Each can is equipped with a fine and coarse nozzle, with copper perforation.

4-quart	$4.50
6-quart	4.80
8-quart	5.25
10-quart	5.60
12-quart	6.10

WOTHERSPOON WATERING POTS



PLANT SPRINKLERS



Putty Bulb

This Improved Putty Bulb is made from a good grade of rubber. For glazing greenhouses, new or old; will be found very handy.

Price $1.50

Parcel Post weight, 1 pound. We do not guarantee rubber goods.

For sprinkling cut flowers, seedlings, plants, clothes, etc.

No. 1—Standard, 12-ounce Sprinkler.....$1.50

No. 2—Spray Bulb Water or Powder..... .50

Parcel post weight, 1 pound.

MASTICA

Mastica.—For glazing greenhouses, sashes, new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

1-Gallon Cans.....$2.25

MASTICA GLAZING MACHINE

OUR SPECIAL PRICE.....$2.75

ASPARAGUS TAPE

Spools of about 1,000 yards, **$1.25** each. Postage extra. Parcel Post Weight, 2 lbs.

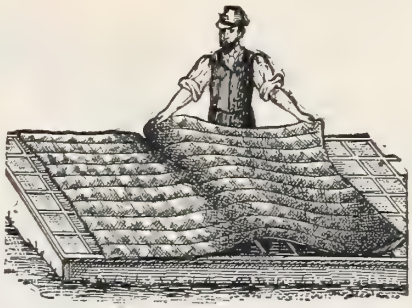
RAFFIA

The best material for tying Plants, Vines, etc.

Per pound.....25c.

GRAFTING WAX

¼-lb. .....15c. ½-lb. .....30c. 1-lb. .....50c.



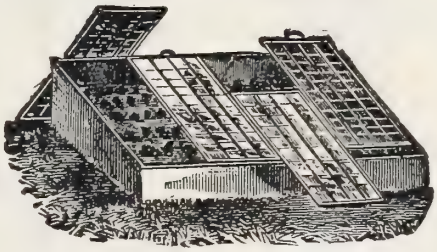
BURLAP HOT-BED MATS

Made of strong burlap, interlined.

Price, 40 x 76, **Each $1.60**

Price, 76x76, **Each $3.00**

Special Price in Dozen Lots.

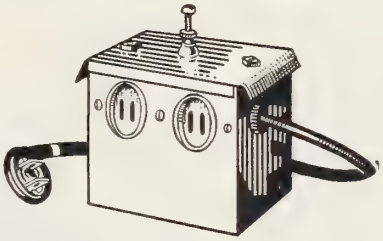


UNGLAZED HOT-BED SASH

3 ft. 2 in. x 6 ft.

Price, $1.85 each.

HOT BED GLASS—Prices on Application.



ELECTRIC HOT BED HEATER

Thermostat has the correct lag for efficient operation. The "Beacon" Thermostat in recent test with four other makes at the University of Maryland received high recommendation. One Thermostat will control 2 heaters.

Model B-47—Thermostat only. Weight 4 lbs. Price, each.....$5.75

Model B-48—60-ft. heater wire. Weight 7 lbs. Price, each..... 4.25

Complete unit, sufficient for 2 hot bed boxes.....$10.00

PEERLESS GLAZING POINTS

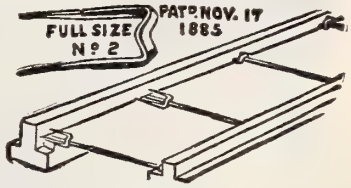
(Imp. Van Reyper.)

The finest glazing points on the market. The glass cannot slip; they are quickly and easily put in with special pincers; no "rights" or "lefts" to bother with.

Per box of 1,000.....75c

Pincers, per pair.....85c

Parcel post weight 2 lbs.



OUT-OF-SIGHT MOLE TRAP

Considered to be one of the best and cheapest Mole Traps on the market. Especially valuable for hot-beds and frames on account of convenient size.

Price $1.25

Parcel Post weight, 2 pounds.

LITTLE GIANT MOLE TRAP

Self-setting by pressing down on lever. Very convenient feature found on no other trap. Made from best spring steel, thoroughly galvanized. Simple and durable in its construction.

Price $1.00

Parcel post wt., 2 pounds.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

FLORISTS AND GARDEN SUPPLIES—Continued

POT LABELS

	Plain	Painted
4x⅝ in., per 1,000	$1.60	$2.00
5x⅝ in., per 1,000	1.80	2.20
6x⅞ in., per 1,000	2.00	2.50
8x⅞ in., per 250 Garden Labels		1.50
12x1⅛ in., per 100		1.00

Special price in quanities to florists.

PAINTED TREE LABELS

	Per 1,000
3½-in., iron wired	$2.20
3½-in., copper wired	2.30

ADJUSTO PLANT SUPPORT

A sturdy, hardwood stake seven-eighths inch square, 3, 4, or 5 feet long, with a strong wire support instantly adjustable to any height. Enables you to cultivate close to the plant. "Adjusto" supported tomatoes ripen to perfection. "Adjusto" supports bring out the full beauty of Dahlias, Chrysanthemums, and all the slender, tall-growing varieties.

4 ft., each $0.25
5 ft., each ..... .30

THE TIME SAVER PLANT SUPPORT

Your Flower and Vegetable Garden's Best Friend. Shove stake solidly into the ground—slide clip to the desired height—place twine around plant to any diameter.

No. 2—3 ft. $1.15
No. 3—3½ ft. 1.60
No. 3A—4 ft. 2.20
No. 4—5 ft. 2.75

THERMOMETERS

No. 5715S

No. 5120—6-inch Cabinet, magnifying tube, black oxidized scale, white figures and graduation, brass screw clasps and guard, back oak finished, natural 90c

No. 5140—8-inch Cabinet, magnifying tube, black oxidized brass scale, white filled figures, nickeled straps and guard, wood back, finished in birch 60c

No. 5440—10-inch tin japanned 30c

No. 5442—12-inch Tobacco Curing, best quality, tested 70c

No. 3391—8-inch Distance Reading; an excellent thermometer for greenhouses and for use where it is necessary to get a quick reading 25c

No. 125—Incubator Thermometer, may be used for a stand-up or reclining with proper holder. With holder, each 75c

No. 128—Brooder Thermometer, round wood back, each 50c

No. 127—Thermometer for all Brooders, metal back 45c

No. 5316S—Temprite Window Thermometer with hanger for outside of window or door, Red Spirit, Large Figures, easy to read $1.00

No. 5452—Self-Registering, boxwood scale, black filled figures, japanned tin case, 10 inch $5.00

No. 5981—Hot Bed, 16 inch, wood frame, with handle, brass pointed ferrule, brass oxidized scale, white-filled figures and graduations $3.00

No. 5740—Standard Dairy, stands boiling water; black oxidized brass scale, white-filled figures and graduations, range from 20 to 200 degrees $1.00

No. 5715S—Large Size Floating Glass Dairy 50c

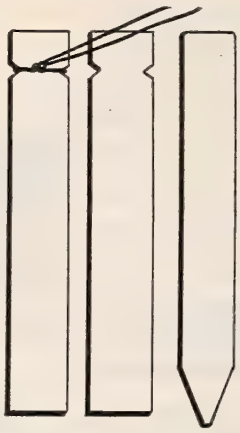
No. 7236—Milk Hydrometer (Quevnne) $1.50

No. 7240—Lime-Sulphur Hydrometer $1.50

No. 7410—Lime-Sulphur Hydrometer, with test jar $2.25

No. 5120

If thermometers are wanted by parcel post, add 10 cents for postage and packing.



STAKES

HEAVY OR DAHLIA STAKES

	Ea.	Per Doz.	Per 100
3 ft.	12c	$1.15	$8.60
4 ft.	15c	1.55	11.40
5 ft.	20c	2.25	14.60
6 ft.	25c	2.50	17.90

LIGHT PLANT STAKES

	Ea.	Per Doz.	Per 100
1½ ft.	3c	$.25	$1.50
2 ft.	4c	.40	2.80
2½ ft.	6c	.60	4.10
3 ft.	8c	.75	5.40

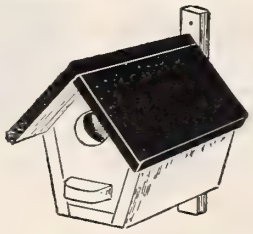
GALVANIZED STEEL STAKES

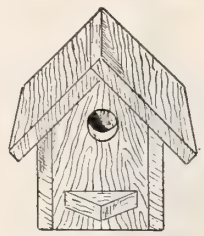
	100 weigh	Per doz.	Per 100	Per 1,000
2 ft.	10 lbs.	$.25	$1.25	$9.75
3 ft.	14 lbs.	.40	2.00	13.75
3½ ft.	17 lbs.	.45	2.25	16.50
4 ft.	19 lbs.	.50	2.50	18.55
5 ft.	24 lbs.	.65	3.00	22.50

CANE STAKES

5 to 7 feet long
Per 100 $1.25 Per 1,000 $10.00

BIRD HOUSES





These houses are made from ¾ inch White Pine, nicely painted, white enamel bodies with the roofs painted green, or finished in rustic brown stain.

The No. 1 House is made with slanting sides so arranged that the bottom dovetails in, making it so it can be pulled out as a slide for cleaning the house. It can also be mounted on a pole by nailing the bottom on top of pole and sliding the house over it.

The No. 2 House has a removable bottom held in place by four screws, and this house can be mounted on a pole by nailing the bottom on top of pole, placing the house in position and replacing the screws.

No. 1 Bird House for Wren or Bluebird, Painted or Rustic Brown $1.00
No. 2 Bird House for Wren or Bluebird, Painted or Rustic Brown ..... .75

IMPORTED GRANULATED PEAT MOSS FOR GARDENS

Granulated Peat Moss is fine for garden mulch, as it conserves moisture.

When incorporated in the soil, it promotes growth and supplies humus, which is very essential for growing plants.

When used in connection with fertilizers, flowers and plants should grow very luxuriantly.

5 lbs. 30c—25 lbs. $1.00—½ Bale $1.50—Bale $2.50

SPHAGNUM MOSS

For packing Orchids, Plants, etc. Per bale $2.75

POULTRY LITTER

Imported; used largely in laying houses, will absorb moisture 8 to 10 times its weight. Better than straw or other litter for laying hens; will last 3 or 4 times longer than straw bales $2.50

National Eezy Wear Garden Gloves

Made from special imported hides processed to render them amazingly soft and pliable. Permit almost barehand freedom yet provide complete all-leather protection. Ideal for garden and similar uses.

DIRT-PROOF—DURABLE—WASHABLE

Four sizes "SMALL" and "MEDIUM" for Women, "MEDIUM" and "LARGE" size for Men.

Price 75c a pair, 2 pairs for $1.40.

BESTYETTE

PLANT LABEL

Made of Aluminum, with reversible soft copper pad, on about nine inch support, which is inserted in the ground. Mark with an ordinary lead pencil.

Price 6 cents each; 50 cents per dozen.

THE PERFECT GARDEN LABEL

(BORDER SIZE)

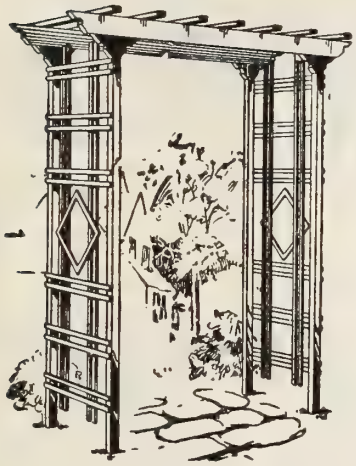
Any ordinary lead pencil can be used to mark name of plant on horizontal marking space of this label. Set it in the ground near plant to be marked and set deep, so that only marking space shows.

This marking will last for several years in any soil, or in any weather. Same can be erased for other use. Green in color, which makes them blend with foliage.

Price: 12 for $1.00; 25 for $2.00

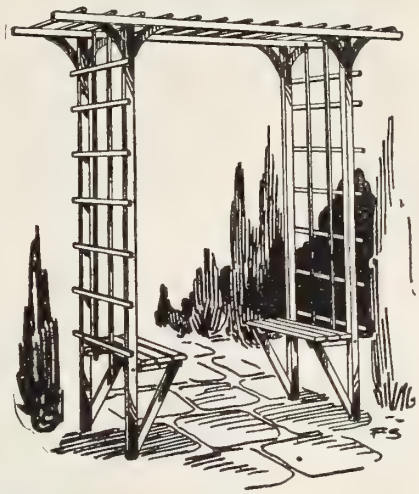
TRELLIS—ARBORS—PERGOLAS

PERGOLA



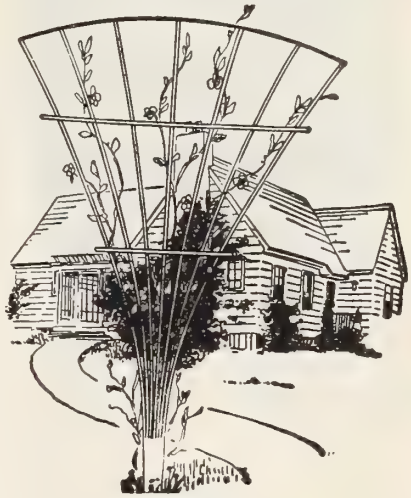
No. 118
Height 7 feet, width 8 feet, depth 35 inches, each **$3.50**

ARBOR



No. 119S
Height 7 feet, width 6½ feet, depth 30 inches, each **$6.00**

FAN TRELLIS



Nos. 926 and 928
No. 926—Height 6 feet, price **$0.85**
No. 928—Height 8 feet, price ..... **.95**

LUXOR DECORATED CUT FLOWER JAR

No. 2

7 inch **$0.40**
9 inch ..... **.60**
11 inch ..... **.80**

WRITE FOR INFORMATION RESPECTING MANY OTHER ATTRACTIVE DESIGNS

BIRD BATHS

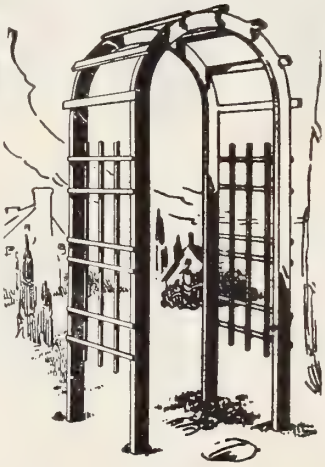
	Dia.	Height	Price
No. 2 Bird Bath, like cut	20 in.	23 in.	**$4.50**
No. 4 Bird Bath, plain	20 in.	24 in.	**4.25**
No. 6 Bird Bath, decorated	17 in.	23 in.	**4.00**

LUXOR BULB BOWL

No. 1

6½ inch **20c**

CIRCULAR TOP ARCH



No. 108
Height 7 feet 6 inches, width 38 inches, depth, 35 inches, each **$5.50**

LUXOR BULB BOWL

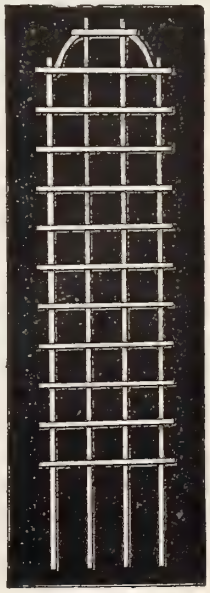
No. 2

8 inch **$0.50**
9 inch ..... **.60**
No. 3 Luxor Bulb Bowl, 7 inch ..... **.35**

LENNOX HANGING BASKETS

With Saucer attached, complete with Hanging Chain.
Price: 8-inch, **60c**; 10-inch, **85c.**

TRELLIS



No. 327

Height 8 feet, width 24 inches, each **$0.75**

MANY OTHER DESIGNS ON REQUEST

NO FREIGHT OR EXPRESS SHIPMENTS

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

U. S. PLANT TUBS

These plant tubs are made from best grade cedar, with strong iron handles and feet. Just the thing for Palms, Rubber Plants, etc. Painted Green with Black Trimmings.

Painted Green.

	Outside Top Diameter	Depth	Price
No. 1	12	10¾	$2.15
No. 2	13	12¾	2.80
No. 3	14½	14¾	3.45
No. 3½	16½	15¾	4.55
No. 4	19⅞	16⅝	4.90
No. 5	22⅞	18½	6.40

CEDAR PLANT TUBS

RICHMOND STYLE

The Richmond style fills a long felt want for a cheap type of plant tub and is being used by many large florists in place of earthen pots. These plant tubs are nicely painted with the best oil paints—a handsome green color inside and out. The tops of the staves are slightly beveled, which gives them a neat, trim finish.

Size	Inside Top Diam. In.	Inside Bot. Diam. In.	Inside Depth In.	Thickness of Stave In.	Price Each
No. 3	8	6	8	⅜	$ .60
No. 4	9	7	9	⅜	.65
No. 5	10	7½	9	7/16	.75
No. 6	11	8½	10	½	.95
No. 7	12	9	11	½	1.15
No. 8	13	10	12	½	1.45
No. 9	14	11	13	⅝	1.60
No. 10	15	11½	14	⅝	1.80

NEW WAY TO GROW VEGETABLES, FLOWERS AND POTTED PLANTS!

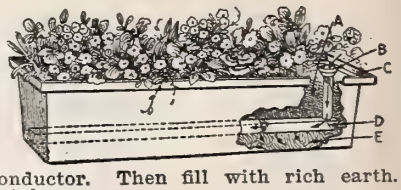
If you feed your potted plants, flowers and vegetables on Plantabbs each week or ten days they'll grow lots better than any fertilizer will make them grow. Plantabbs are a complete food in odorless tablet form —guaranteed to contain 11% nitrogen (ammonia), 15% phosphoric acid and 20% potash.

Include in your next order. Price:

30 Tablets	25c.
75 Tablets	50c.
200 Tablets	$1.00.
1000 Tablets	3.50.

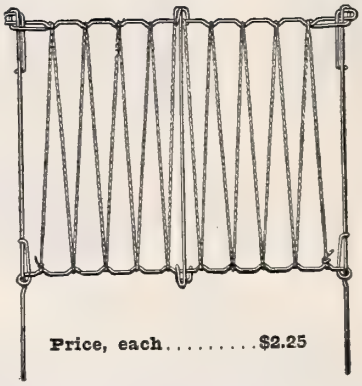
FULTON'S
Plantabbs
ODORLESS PLANT FOOD TABLETS

PLANT BOXES—GALVANIZED
Green Finish



Sub-irrigating device insures uniform distribution of water and air throughout the entire length of box. Best results obtained by putting gravel, charcoal, moss or something of the kind in bottom of box up level with top of horizontal water conductor. Then fill with rich earth. Water through upright tube.

Size 20x8½x7¼ inches	$1.00
24x8½x7¼ inches	1.25
30x8½x7¼ inches	1.40
36x8½x6¼ inches	1.75



Price, each.....$2.25

TIMESAVER
SWEET PEA, GARDEN PEA AND VINE
TRELLIS

Dimensions 5 feet by 5 feet over all. Stands 4 feet above ground when placed. Frame made of ¼ inch Galvanized cold drawn steel, Green Rope center. Several can be used end to end for long rows. Easily assembled in a few minutes without use of tools. Various parts snap solidly together and center is then strung on the frame. Very quickly taken apart again, if desired, for storage purposes.

BIRD'S RED Improved Neponset FLOWER POTS

The **Improved** Bird Neponset Flower Pot is now ready for the truck gardener, the florist—every grower of plants on a large or small scale.

Month of testing under actual growing conditions have proven that this **Improved** Pot can be used successfully when seedlings are to be carried from six to eight weeks.

	Per Doz.	Per 100	Per 1000		Per Doz.	Per 100	Per 1000
2¼ in.	$ .08	$ .50	$3.80	4 in.	$ .25	$1.00	$8.00
2½ in.	.10	.60	4.10	5 in.	.30	1.50	10.50
3 in.	.15	.70	5.10	6 in.	.40	1.85	14.00
3½ in.	.20	.85	6.60				

These sizes carried in sock.

Packed 500 to case on special order.

STIM-U-PLANT
PLANT STIMULANT TABLET

1. Gives an EXACT FEEDING UNIT—No guesswork.
2. Provides for ABSOLUTE CONTROL of feeding, eliminating the danger of overfeeding.
3. No MESSY MIXING.
4. No unpleasant ODOR.
5. Is EASIEST TO APPLY.
6. Insures MAXIMUM EFFICIENCY because the plant gets all the food-value—none being lost through scattering where not available to the plant, leaching and run-off of surface soil-water.

7. Makes REPOTTING of house plants UNNECESSARY, as it replaces the food withdrawn by the growing plant.

Because of its ready solubility, **STIM-U-PLANT** can easily be used as a liquid manure, by dissolving the tablets in water at the rate of four to the gallon.

Small size, 30 tablets....$0.25
Large size, 100 tablets... .75

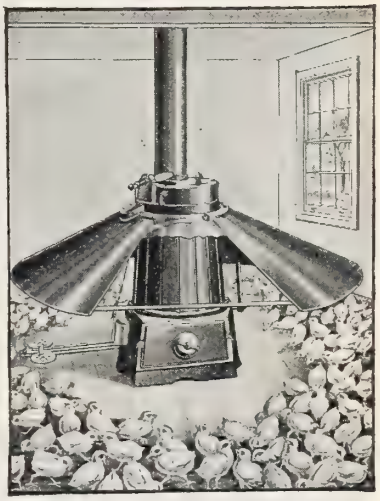
EUREKA COAL BURNING BROODER STOVE

Eureka Coal Burning Brooder Stoves to take the place of the old Queen Brooder Stove, and is made by the same manufacturer.

The Eureka Colony Coal Burning Brooder is an improved design of Brooder Stoves and is made of high quality cast iron, and will last indefinitely.

There is no damper in smoke pipe on the Eureka. The check draft rests on top of the above and opens outward. When the fire is too warm, this gives a gentle inflow of air to retard the heat.

The Eureka stove burns any kind of fuel with equally satisfactory results. We recommend chestnut sizes in all kinds of fuel, and hard or soft coal, coke or charcoal burn equally well. Of course, hard coal will not cause the pipe to become dirty as quickly as the others, but it will give no better heat.



PIPE FOR STOVE BROODERS

4-inch Galvanized Pipe, in 10-foot lengths, per foot.....12c
5-inch Galvanized Pipe, in 10-foot lengths, per foot.....18c
4-inch Galvanized Elbows.....35c
5-inch Galvanized Elbows.....40c

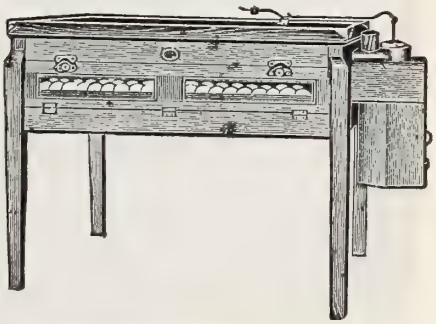
	No. 11 Capacity 350 Chicks	No. 22 Capacity 500 Chicks	No. 33 Capacity 800 Chicks	No. 61 Capacity 1,000 Chicks
Size Smoke Pipe	4 in.	4 in.	4 in.	5 in.
Height to Top of Stove	22 in.	25½ in.	27 in.	35 in.
Diameter of Cylinder	10 in.	11 in.	13 in.	15 in.
Diameter of Hover	42 in.	52 in.	56 in.	60 in.
Coal Capacity	26 lbs.	37 lbs.	50 lbs.	64 lbs.
Diameter of Grate	9 in.	10¼ in.	11½ in.	11½ in.
Height of Hover from floor	8½ in.	11 in.	13 in.	13 in.
Shipping Weights (complete)	82 lbs.	105 lbs.	122 lbs.	165 lbs.
Price	**$14.00**	**$17.50**	**$21.00**	**$27.00**

MOE'S INCUBATORS

Remember, it is not how many chicks you hatch, but how many you raise. Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you but trouble and loss.

PROPER INSULATION. The Moes is doubly insulated. First, we have double walls of California redwood, forming a dead air space. Second, corrugated strawboard is used between the wooden walls.

MOE'S HOT-WATER HEATING—The Moe System of hot-water heating prevents the drying out tendencies found in the hot-air incubators and provides a soft uniform heat over every part of the egg chamber—a heat that is most natural for the hatching eggs. The circulation of water through the radiator prevents any moisture being added or taken away from the eggs. When it becomes necessary to remove the lamp, the hot water circulating through the radiator maintains an even heat within the egg chamber without the slightest variation.



	Capacity	Price
165	85 egg	**$15.00**
167	150 egg	**19.00**
168	250 egg	**22.00**
170	400 egg	**29.00**
172	600 egg	**35.00**

Can supply Electric Incubators, $3.00 each higher than above price, all with egg-turning tray.

No. 100 Lamp Bowl, takes No. 1 Burner.....**$0.50**
No. 101 Lamp, takes No. 2 Burner.....**.60**
No. 102 Lamp Bowl, takes No. 3 Burner.....**.75**
No. 213 Burner, No. 1 size, ⅞ in. flue, ⅝ in. wick.....**.35**
No. 202 Burner, No. 2 size, 1 3/16 in. flue, ⅞ in. wick.....**.40**
No. 203 Burner, No. 3 size, 1¾ in. flue, 1½ in. wick.....**.65**
Zenith Burners, No. 1.....**.50**

⅝ in. Wicks **3c each, 25c doz.** ⅞ in. Wicks **5c each, 45c doz.** 1½ in. Wicks **8c each, 55c doz.**

Adjustable Roof Saddles, No. 440, 4 in.....**$1.25**
Adjustable Roof Saddles, No. 441, 5 in.....**1.35**
Smoke Pipe Cap, No. 440, 4 in.....**.30**
Smoke Pipe Cap, No. 445, 5 in.....**.35**

CAPONIZING TOOLS

You can do your own caponizing easily with this set of tools. Each tool is made for this especial work, and is of the highest grade. These sets are packed in a neat wooden box.

Philadelphia Set.....**$3.50**
Farmer's Set..... **3.50**

PHILADELPHIA GAPE EXTRACTOR, 30c. each.

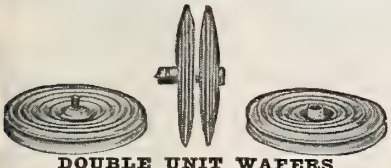
French Poultry Killing Knife
Expeditious and humane way of killing and dressing poultry. Price, with instructions, each, **60c.**

LICE KILLER AND NEST EGG
Combined in One
Lasting, effective. Not expensive. Does not affect the flavor of the egg nor injure it for hatching. **60c dozen.**

WIRE HEN NESTS
Each **20c**
Per Dozen.....**$2.35**

PORCELAIN NEST EGG
The best and cleanest nest eggs used. Each **5c**, doz. **30c.** By mail **40c.**

BROODER STOVE WATERS



DOUBLE UNIT WAFERS
3 in. **30c**, 4 in. **75c**, 5 in. **$1.00**

LANSDOWNE POULTRY MARKER

Our special price **25c.**

LEG BANDS

ALUMINUM BANDS

No. Bnds.	12	50	100	500	1000
Price	**$0.15**	**$0.40**	**$0.65**	**$3.00**	**$5.50**

CELLULOID BANDS

	No. 91 ¾-in.	No. 92 ⅝-in.	No. 93 ½-in.
12 Bands	**$0.15**	**$0.15**	**$0.15**
50 Bands	**.40**	**.35**	**.30**
100 Bands	**.70**	**.60**	**.50**
500 Bands	**3.25**	**2.75**	**2.25**
1000 Bands	**6.00**	**5.00**	**4.00**

No. 50 RELIABLE EGG GRADING SCALE

A rapid accurate grader, with a brass beam and egg holder, and weighs all standard grades from 16 oz. to 32 oz. per dozen eggs. Price **$1.90**, postage 10 cts. extra.

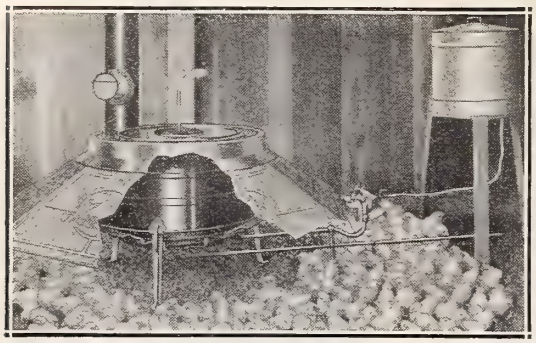
EGG TESTER

Price **25c**, postpaid **35c**

INCUBATOR THERMOMETERS (Stand up)

No. 125 Each.....**$0.75**
No. 127 Brooder Thermometers, metal, each.....**.45**
No. 128 Brooder Thermometers on wood, each.....**.50**
DOUBLE UNIT WAFERS.....3 in. **30c**, 4 in. **75c**, 5 in. **$1.00**

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.



STANDARD OIL-O-STAT

MAKOMB COAL AND OIL BROODERS

A Drum Type Brooder, practical, trouble-proof and efficient, equipped with cast iron furnace type burner and die-cast automatic valve. Built in three styles, the Standard, Senior, and Junior. Burns distillate or furnace oil. Lowers fuel cost one-third to one-half. MaKomb design provides long heat travel. Twin blast furnace type burner requires no priming and will not go out. New Easy Clean device makes possible operating through entire season without lifting top door. Automatic draft adjustor prevents back draft and saves fuel. No smoke, gas or fumes. Provides automatic ventilation for brooder house. Maintains constant temperature under positive control. Tanks hold 8 gallons of fuel, sufficient for two to four days. Equipped with new hexagonal tilting canopy. Comes complete with tank and all fittings except smoke pipe.

Catalog Number	Canopy Size	Model	Main Drum Depth	Htr. Dia.	Chick Cap.	Shipping Weight	Price
A4-2145	45"	Anniversary	14⅜"	18"	300	60 lbs.	**$14.75**
A4-2155	55"	Anniversary	14⅜"	18"	500	65 lbs.	**16.75**
A4-1956	56"	Standard	11¼"	24"	600	100 lbs.	**19.80**
A4-1965	65"	Standard	11¼"	24"	1,000	105 lbs.	**21.75**

"BESTOF ALL" ELECTRIC CANOPY BROODER

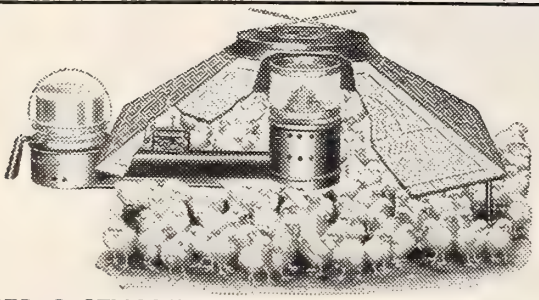
This model is equipped with the famous "Beacon" heater, giving uniform temperature over entire canopy and "BESTOF ALL" quick make and break switch that really controls. Regular models for 110 volt can be furnished for either 110 or 220 volts as it is equipped with two complete circuits.

Model	Size	Watts	Chick Capacity	Weight	Price
B-13	52"x52"	1,000	650	75 lbs.	**$18.75**

MAKOMB GIANT COAL BROODER

Famous for large capacity, positive control and convenience. The only large capacity brooder—equipped with many exclusive features—at popular prices. The famous By-Pass Control insures efficient operation with either soft or hard coal, checks fast burning, and prevents high winds effecting operation. The fluted barrel, larger at bottom, permits coal to settle without bridging. Two-way By-Pass Damper is positive in action, simple, nicely balanced. Ashes or smoke never contact it to cause trouble. Extraordinary fuel capacity prevents burning out at night.

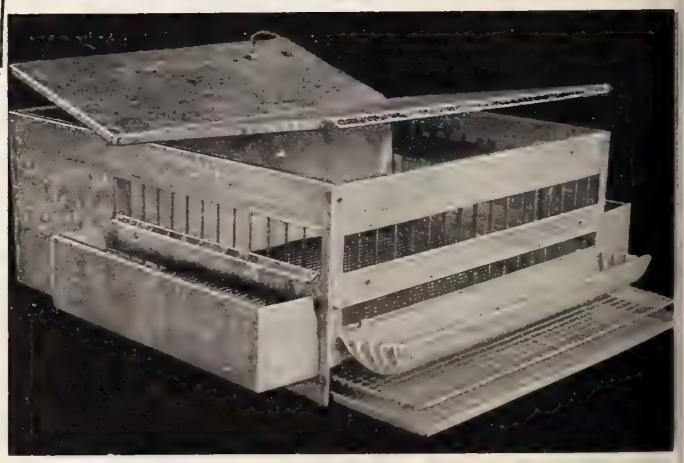
	Capacity	Price Each	Catalog Number
56 in.	600	**$18.90**	B4-1256
56 in.	700	**22.50**	B4-1356
65 in.	800	**24.50**	B4-1365



KER-O-STAT "Blue Flame" OIL BROODER

Only successful Automatic Blue Flame Brooder! Advanced in design and equipped with new hexagonal canopy.

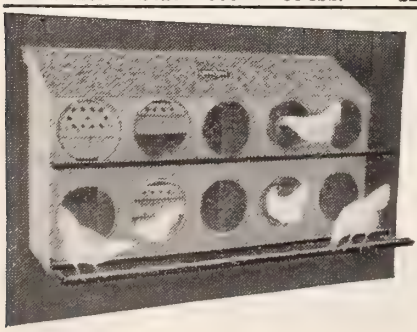
	Capacity	Shipping Weight	Price Each	Catalog Number
35 in. Ker-O-Stat	200	36 lbs.	**$9.75**	A4-735
45 in. Ker-O-Stat	300	47 lbs.	**11.25**	A4-745
55 in. Ker-O-Stat	500	53 lbs.	**12.90**	A4-855



"CONTENTED CHICK" BROODER

Sides and ends open, allowing plenty of ventilation and ample feed space so heavy birds will eat through feed openings. Heating element and thermostatic switch can be raised or adjusted conveniently. Controlled by our "BESTOF ALL" quick break switch. 10 ft. of cord and curtain. The Brooder has same no-waste feed pans; one-piece water pans and die drawn tinned floors.

Model	Size	Watt	Weight	Price
B-1	24" wide—30" deep	150	35 lbs.	**$10.00**



ALL-METAL LICE-FREE SANITARY NESTS

The nest boxes are 11½ inches wide and 13 inches deep, with a 9¼-inch nest-hole, sufficiently large for average flocks. Trap Front furnished if desired, **50c. each extra.**

All Metal Nests, 3-hole section, weight 25 lbs. **$4.75**
All Metal Nests, 6-hole Double Tier Section, w'ght. 35 lbs. **6.00**
All Metal Nests, 10-hole Double Tier Section, w'ght. 35 lbs. **9.00**

ONE PIECE CHICK FEEDER

New, one piece, water tight die formed feeder perfectly proportioned. Ends tightly folded, have two positions for red reel. Depth 2", width 3¾". Flanged edge ½" wide.

H4-324—24-inch One Piece Feeder **25c**
H4-336—36-inch One Piece Feeder **35c**

ADJUSTABLE CHICK TROUGHS

H3-330—30 inch ..... **$ .80**
H3-248—48-inch, with stand **1.25**
H3-248—48-inch, without stand ..... **.90**
H1-548—48-inch Chick Troughs, on stand **1.25**

WASTE NOT CHICK TROUGHS

H2-140—40 inches long **$1.50**
H2-130—30 inches long **1.25**

MaKomb Poultry House Equipment

THE NON-CLOG MASH FEEDER

BIRD AND VERMIN PROOF

Rain tight. For grain or mash. Holds 110 lbs. of commercial dry mash or 200 lbs. of grain (2½ bu.). Adjustable throat and feed guard along trough edge prevent waste. Self closing hinge covers are opened and feed agitated automatically when hen mounts platform. Built of heavy galvanized steel and mounted on heavy steel truss stand. Preferred for range feeding.

Length of hopper, 35 inches. Length of perches, 37 inches.

	Shipping Wt.	Price Each	Catalog No.
(One in carton)	34 lbs.	**$6.00**	H2-11

FLOAT FOUNTAINS

Prime galvanized steel, with preferred separate pan of extra heavy 24 gauge. All edges full rolled. Controlled by our all brass double acting float valve; shuts off when carrying. Lamp heaters hold 2 weeks oil supply. Electric heaters use 40 watt enclosed elements in direct contact with underside of pans. Cone top lifts off to fill.

G4-105—5 Gal. Fount	**$3.15**
G4- 65—5 Gal. F'nt Oil Htd.	**3.45**
G4-65E—5 Gal. Fount Elec.	**3.80**
G4-118—8 Gal. Fount	**2.80**
G4- 78—8 Gal. F'nt Oil Htd.	**3.90**
G4-78E—8 Gal. Fount Elec.	**4.25**
G3-13—Stand for Fountains.	**1.50**

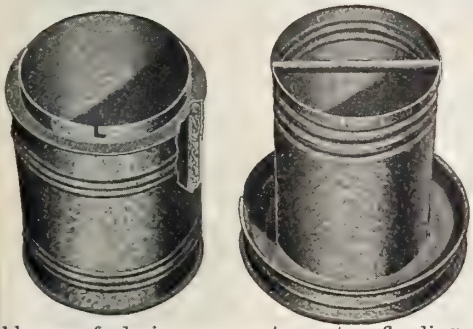
THE MaKOMB FOUNTAIN STAND

(For 5, 6, and 8 Gallons Founts)

FOUNTAIN STAND SPECIFICATIONS

Cat. No.	Shipping Weight	Price
G4-13	6 lbs.	**$1.50**

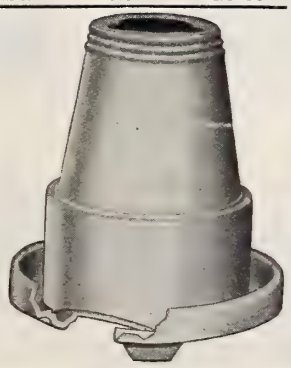
THE TOP-FILL INSOFOUNT



Top-Fill Insofount — Balsam Wool insulated—can be cleaned or filled by pulling off the outside can. Durable locking device holds Outer and Inner assemblies together for easy and safe handling. Wooden roller handle prevents roosting. Positive Spring Valve—exclusive trouble proof design—prevents water flooding when removing Outer can. Made of copper bearing steel. Drink all around.

	Shipping Weight	Price Each	Catalog Number
3-Gallon	15 lbs.	**$2.75**	G3-45
5-Gallon	18 lbs.	**3.75**	G3-55

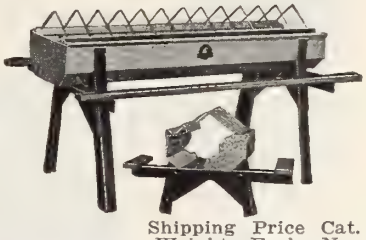
NEW MODEL "SPIL-PRUF"



Spil-Pruf Stone Fount. Exclusive design eliminates splash. Easy grip ribs for handling. Glazed inside and out, with footed pan.

	Shipping Weight	Price Each	Cat. No.
2 Qt. (24 in crate)	7 lbs.	**$ .45**	S3-12
4 Qt. (24 in crate)	9 lbs.	**.60**	S3-14
6 Qt. (18 in crate)	12 lbs.	**.75**	S3-16

THE LONG BOY FEEDER



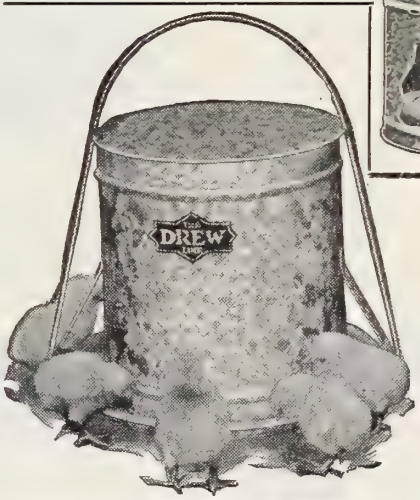
Equipped with either wire grid or tumble guard. Maximum feeding space at low cost. Trough, made of 26 gauge prime galvanized steel, is 10 inches wide, 5 inches deep. Supported on wide, sturdy, black japanned stand. Easily supports 600 pound weight. Perches wide and adjustable. Feed both sides.

	Shipping Weight	Price Each	Cat. No.
5 ft. Long Boy Feeder—Grid Guard	24 lbs.	**$4.40**	H4-95
5 ft. Long Boy Feeder—Tumble Guard		**3.50**	H4-103

VACUUM FOUNTAINS

Same first quality metal, same heavy pans, non-roost cone top, inner carrying handle and rolled edges as on Float Founts. These are Top-Fill Vacuum Controlled. The outer can pulls off to fill, and automatic spring valve then prevents flow. The 3 gallon size lacks non-roost disc at top, is fine for chicks.

G4-195—5 Gal. Fount only	**$2.00**
G4-196—5 Gal. Fount Oil Htd.	**3.25**
G4-208—8 Gal. Fount only	**2.75**
G4-209—8 Gal. Fount Oil Htd.	**4.00**



DREW CHICK TANK

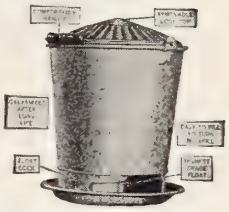
The Drew Chick Tank is 1½ gallon capacity. It is rust proof and sturdy—an ideal, large capacity waterer.

There are only two parts to this waterer—the bucket and the watering pan. You will appreciate the value of this economical Drew waterer.

DB-507—Drew Chick Tank; weight, 6 pounds. Price **$1.25**

FLOAT FOUNTAIN FOR CHICKS

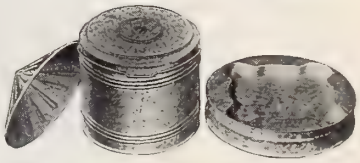
TOP FILL—10 QTS.



New fountain of most practical design. Built of heavy gauge galvanized steel. No clamps, no upset. Removable Cone Top comes off to fill. Handle provides for easy handling. Float can be locked to prevent flow.

	Shipping Weight	Price Each	Cat. No.
6 to the carton	4½ lbs.	**$1.50**	G3-1

4-CUP INSOFOUNT



Has certain exclusive advantages because minimum water surface exposed makes it highly resistant to freezing. Will not spill, splash or over flow. Adequate drinking space. Space between cans packed with Balsam Wool—400% better insulation than ordinarily used. More easily handled with new outside bottom handle. Deep, triple rolled beads increase strength. Copper bearing steel throughout.

	Shipping Weight	Price Each	Catalog Number
3-Gallon	14 lbs.	**$3.00**	G3-33
5-Gallon	16 lbs.	**4.00**	G3-35

POULTRY LITTER

Imported from Germany: used largely in laying houses, will absorb moisture 8 to 10 times its weight. Better than straw or other litter for laying hens; will last 3 or 4 times longer than straw bales. **$2.50.**

NESCO DRINKING FOUNTAIN

4 Quarts 35c

BOTTOM FILL FOUNTAINS

The round taper shape prevents damage from freezing.

No.	Capacity	Each
19	1 Quart	$0.25
20	2 Quarts	.30
24	1 Gallon	.40

NO. 32 MOE'S STAR FOUNTAIN AND FEEDER

Made of a single piece of heavy metal. No solder, no seams, no loose parts. Suitable for feed as well as water. Little chicks cannot drown. Fits any Mason jar in 1 Pint, 1 Quart, and 2 Quart sizes.

No. 32 (Glass jar not included),
Each $0.10
Dozen 1.00
Gross 12.00
Packed 1 gross to case.

NO. 133 MOE'S STAR BUTTERMILK FEEDERS

Made of Bright Charcoal Tin Plate, which is not affected by milk acids. Makes an absolutely safe and sanitary feeder for buttermilk and sour milk.

Packed one gross in carton. Shipping weight, per gross, 35 lbs; per dozen 4 lbs.

No. 133 Star Fountain in Tin Plate.
Price, each $0.10
Dozen 1.20
Gross 14.40

GEM CHICK FOUNTAINS

No. 158

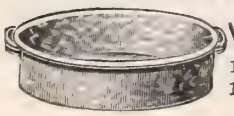
A good, inexpensive fountain for chicks or grown fowl.

No. 150—1 gallon 50c
6 in box, 15 lbs.
No. 119—2 gallons 70c
6 in box, 18 lbs.

MOE'S TOP-FILL CLEANABLE FOUNTAIN

An inexpensive, cleanable fountain, suitable for chicks or grown fowl. Made of galvanized steel. Easy to fill and clean and the water feeds automatically; no valves; can be hung on the wall if desired. Capacity 2 gallons. Height 14 inches. Diameter of pan 11½ inches. Packed 3 in a carton. Shipping weight, 18 pounds.

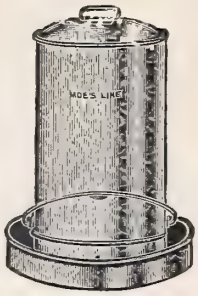
No. 40 Moe's Top-Fill Fountain,
Each ..... $1.75 Dozen $19.80



WATER PANS

14 in. 65c
16 in. 75c

MOE'S TOP FILL CLEANABLE FOUNTAIN



Made of heavy galvanized steel with double walls, which keeps the water cool in summer, and retards freezing in winter.

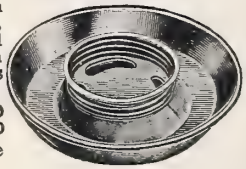
No. 33. Two gallons. Shipping weight 6 pounds.
Each $1.90

No. 34. Four gallons. Shipping weight 9 pounds.
Each $2.25

MOE'S TWIN CHAMBER FOUNT

No. 97 Twin Chamber Fount, has two places to drink; capacity 3 gallons.
No. 97, price $2.25

MASON JAR FOUNTAIN



No. 142. Mason Jar Fountain, made of tin, and is screwed on an ordinary glass jar.

Price, each .. $0.10
Dozen 1.20
(Glass jars are not included.)

MOE'S WINTER FOUNTAIN

Capacity 5 and 10 Gallons

A simple and reliable fountain with heater. Made of heavy galvanized iron, easily filled, with nothing about it to get out of order.

Packed 1 to a case.

No. 75—Fountain and Heater, 5 gal. $3.25
No. 78—Fountain only, capacity 10 gallons 2.25
No. 74—Tank only 1.50
No. 10—Heater only 1.90
No. 79—10 gal. Fountain and Heater 4.50

Moe's "Top Fill" Fountain

Automatic Feed Easy to Fill and Keep Clean

1 Gallon $1.25
2 Gallons 1.75
4 Gallons 2.20
Packed 1 to case

MOE'S INSULATED TOP-FILL CLEANABLE FOUNTAIN

Insulated Double Walls, Top and Bottom

In Winter. Fill with hot water (about 150 degrees). The hot water thoroughly heats the insulated walls, so freezing is retarded. In extremely cold weather it is advisable to add hot water about midday. The fountain should be emptied at night and refilled each morning.

In Summer. Fill with cool water, place in shady spot. Made in one size only. Capacity 4 gallons.

No. 54 Moe's Top-Fill Insulated Fountain, each $4.00

MOE'S WINTER FOUNTAIN

Top Fill

No. 418 — Is our No. 34 High Grade Fountain with heater. Holds 4 gallons water. Diameter of pan 13 in. Total height 23 in. Shipping weight 13 lbs.

Price $4.50, complete.

Drop Bottom Fountain

Drop bottom, easy to fill and to clean. May be hung on the wall out of the litter.

No. 40—
½ gallon 50c

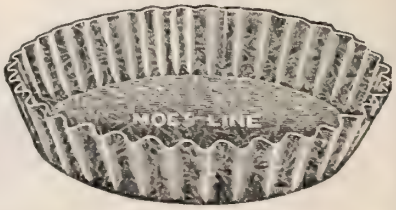
FEED AND DRINKING CUPS

GALVANIZED

Especially suitable for Exhibition Coops.

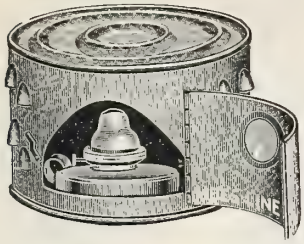
No. 61—Each ..... $ .15
Doz. 1.80

MOE'S STEEL PAN



Diameter 17 in. Depth 3½ in.
No. 195—Moe's Steel Pan. Each 45c

MOE'S FOUNTAIN AND BROODER HEATER



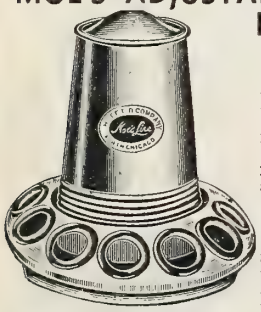
Can be used with all styles of fountains, and effectively prevents water from freezing.

The lamp fount or bowl holds sufficient kerosene to burn continuously for seven days. Simple and safe. Nothing to get out of order.

No. 10—Price, each **$1.50**

No. 436—Electric Heater, Complete, same size as above **$2.60**

MOE'S ADJUSTABLE MILK FOUNTAIN



Magazine Feeder in Tin Plate. Adjustable up and down to feed slowly or rapidly, for any kind of milk or feed. Capacity about 2 quarts. Has 12 feeder holes.

No. 139. Magazine Tin Feeder.

Each ..... **$ .45**

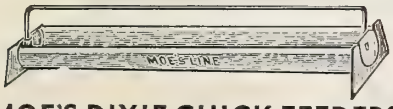
Per doz. **5.40**

Moe's Buttermilk Feeders

Made of Bright Charcoal Tin Plate, which is not affected by milk acids. Makes an absolutely safe and sanitary feeder for buttermilk and sour milk.

No. 131—Moe's Round Tin Feeders. Diameter 6 inches, with 8 feeder holes. Packed ½ gross in a carton. Shipping weight per gross 55 pounds; per dozen 5 pounds. **Price,** each **15c,** per doz. **$1.80**

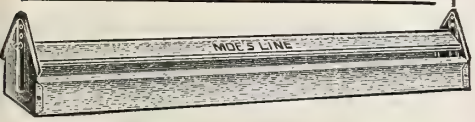
No. 132—Moe's Round Tin Feeders. Diameter 8½ inches, with 12 feeder holes. Packed ½ gross in a carton. Shipping weight per gross, 110 pounds; per dozen, 10 lbs. Each **30c,** doz. **$3.00.**



MOE'S DIXIE CHICK FEEDERS

No. 460, 18 in. Long **20c**

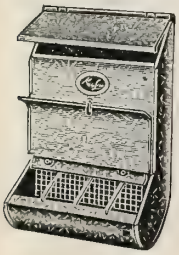
No. 462, 30 in. Long **30c**



Moe's Swing Top Chick Feeders

No. 463, 3 ft. Long **60c**

No. 464, 4 ft. Long **80c**



DRY MASH HOPPERS

No. 35—Width 8½ in. **$1.00**
Packed 6 to case.

No. 36—Width 12 in. **$1.50**
Packed 4 to case.

No. 13—Width 18 in. **$1.75**
Packed 4 to case.

No. 37—Width 24 in. **$2.00**
Packed 2 to case.

BABY CHICK FEEDERS

No. 11—Diameter 6 in., with 8 holes, each **10c.** Packed ½ Gross to Case.

No. 12—Diameter 8¼ in., with 12 holes, each **20c.** Packed ½ Gross to Case.

MOE'S PEERLESS FEEDER

For chicks and growing fowl. The magazine or hopper is adjustable and can be set to feed slowly or rapidly.

No. 192

No. 192—Peerless Feeder. Diameter of base 12 inches. 30 feeder holes. Diameter of magazine 9½ inches. Total height 12 inches. Capacity 10 quarts. Shipping weight 6 pounds.

Each **$1.00**

Per doz. **12.00**

No. 193—Peerless Feeder. Diameter of base 12 inches. 30 feeder holes. Diameter of magazine 9½ inches. Total height 18 inches. Capacity 18 quarts. Shipping weight 7 pounds.

Each ..... **$1.25** Per dozen **$15.00**

Moe's Double Feeding Troughs

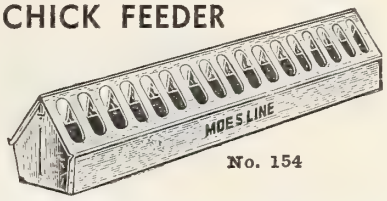
	Each
No. 58—12 in. Packed 24 to case	**$0.25**
No. 59—18 in. Packed 12 to case	**.30**
No. 60—24 in. Packed 12 to case	**.35**
No. 76—36 in. Packed 12 to case	**.50**
No. 21—12 in., single row, 24 to case	**.25**
No. 22—18 in., single row, 12 to case	**.35**
No. 23—24 in., single row, 12 to case	**.45**
No. 55—12 in., single row, 24 to case	**.20**
No. 56—18 in., single row, 24 to case	**.30**
No. 57—25 in., single row	**.35**

Moe's Eclipse Feeding Troughs

No. 27—10 in., Galvanized ..... **$.15**
Packed 24 to case.

No. 28—20 in., Galvanized ..... **.25**
Packed 12 to case.

MOE'S INTERMEDIATE CHICK FEEDER

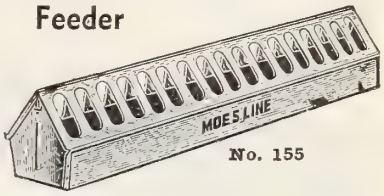


No. 154

For small chicks, growing fowl and hens. 32 inches long. Holds 12 quarts.

No. 154—Each ..... **$1.00** **Per doz.** **$14.40**

Tin Plate Buttermilk Feeder



No. 155

Same as No. 154, but can be used with buttermilk. **Each $1.75.**

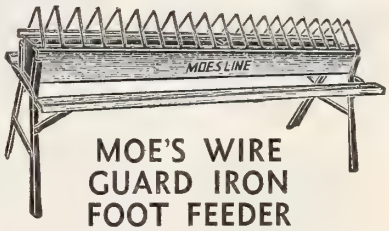
MOE'S OAT SPROUTER

Steel frame, well braced and painted. With six heavily galvanized iron pans which are interchangeable. Provides the very necessary green feeds at all seasons.

Total height 3 feet. Size of pans 16x18 in.

No. 110—Oat Sprouter.

Each **$4.00**



MOE'S WIRE GUARD IRON FOOT FEEDER

The trough rests securely on the stand, but can be removed.

No. 355—Complete with stand and guards, 5 feet long **$4.50**

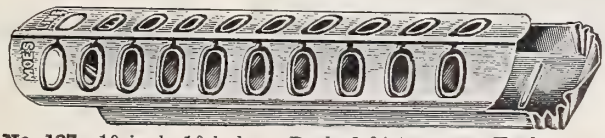
No. 356—Trough only with wire guard, no stand **2.50**

GRIT and SHELL BOXES

No. 45—Two compartments. Packed 12 to case ..... **$ .35**

No. 9—Three compartments. Packed 6 to case ..... **.65**

No. 90—Four compartments. Packed 6 to case ..... **.90**



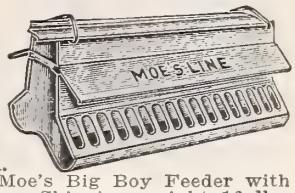
Heavy Tin Buttermilk Feeders

Feeding Troughs in Tin Plate. Sliding Top. Easy to clean. No seams, rivets or solder. Clean, sanitary feeders.

No. 137—10 inch, 10 holes. Packed 24 to case. Each ..... **20c.** Doz. **$2.40**

No. 138—20 inch, 20 holes. Packed 12 to case. Each ..... **30c.** Doz. **3.60**

MOE'S BIG BOY FEEDER

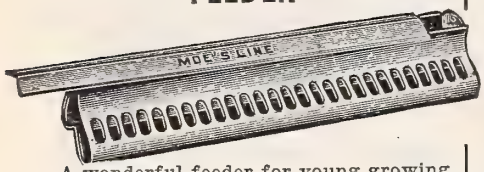


A Feeder especially designed for growing stock—three or four-week-old chicks—and up to full-grown mature fowl.

No. 160—Moe's Big Boy Feeder with sliding cover. Shipping weight 16 lbs. Each **$2.50**

No. 161—Moe's Big Boy Feeder with wide adjustable rain cover. Covers project 5¾ inches on each side. Shipping weight 18 lbs. Each **$3.00**

MOE'S LARGE CAPACITY FEEDER



A wonderful feeder for young growing stock, and a great time and labor saver when chicks are raised in large numbers. Made of heavy galvanized iron in two sizes, both with a large capacity.

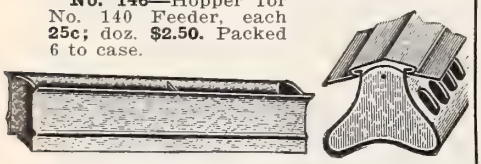
Sliding top cover, easy to fill and clean, and the birds cannot roost on the cover or side to foul the feed.

No. 140—Feeder, capacity 10 quarts, length 21 ins., width 8½ ins., height 7 ins. 16 openings on each side, so that 32 chicks can feed at one time. Each **75c.**

No. 141—Feeder, capacity 17 quarts, length 35 ins., width 8½ ins., height 7 ins. 27 openings on each side, so that 54 chicks can feed at one time. Each **$1.25.**

Extra Hopper for Large Capacity Feeder

No. 146—Hopper for No. 140 Feeder, each **25c;** doz. **$2.50.** Packed 6 to case.



No. 148—Hopper for No. 141 Feeder, each **50c.** Packed 4 to case.

WIDE RAIN COVERS

No. 147—for No. 140 Feeder, each **20c;** doz. **$2.40.** Packed 12 to case.

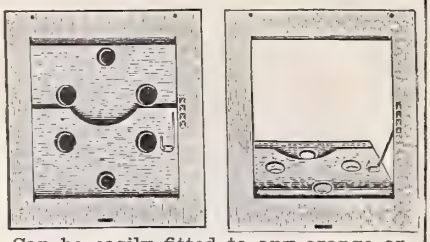
No. 149—for No. 141 Feeder, each **30c;** doz. **$3.60.** Packed 12 to case.

WATER GLASS

Put up expressly for packing away eggs during the summer months. Use 1 part Water Glass to 9 parts of water. At a cost of only one cent a dozen, you will be able to have your own eggs.

Price: 1-qt. can **$0.30**
1-gal. can **1.00**
5-gal. can **4.00**

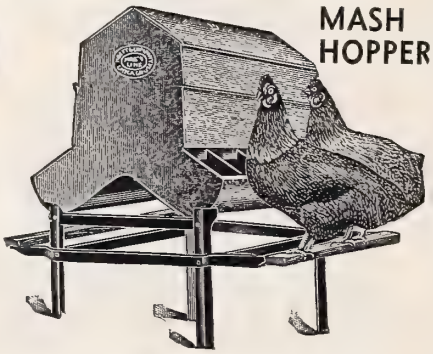
MOE'S TRAP NEST FRONTS



Can be easily fitted to any orange or ordinary wood box or coop and gives the breeder the opportunity to use a size nest adaptable to his birds. Dimensions —11 ins. wide by 12 ins. high; 12 to case.

No. 63 Trap Nest Front...Each **50c;** doz. **$6.00.**

MOE'S MAMMOTH DRY MASH HOPPER



A large capacity hopper built on correct principles. Made of heavy galvanized iron. The stand is of heavy angle iron, painted, and has wooden bars for the poultry to rest on when feeding. Length of hopper 35 ins., width 21 ins., height 18½ ins. Capacity, 100 lbs. Height of stand, 15½ ins. Total height 34½ ins. Packed one in a box. Shipping weight 50 lbs.

No. 3 Hopper and Stand complete, price, each **$6.00**

CEL-O-GLASS

Grow your own plants. Get earlier flowers and vegetables with Cel-O-Glass. Use the new improved Cel-O-Glass on your cold frames and hot bed sashes—for such important new uses as cylinders and cones for individual plants, forcers for row plants and newly planted seeds.

Cel-O-Glass can be used where ordinary glass and cloth can't. And Cel-O-Glass is much lighter. Sashes are easier to handle. Not affected by hail, snow, rain or wind—and can't break like glass. Flexible. Easy to cut and use. Highly translucent. Lets in the ultra-violet rays of sunshine.

The new improved Cel-O-Glass lasts twice as long. Saves heavy lifting, breakage and repair expense.

Price, 3 feet wide, per running foot, **40c.**

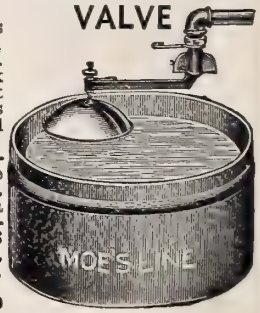
WINDOW FABRIC

SUBSTITUTE FOR GLASS

Transmits Violet Rays

1 yard	**$0.30**
5 yards	**1.25**
10 yards	**2.50**
50 yards	**12.50**
100 yards	**25.00**

AUTOMATIC WATER VALVE



Valve is threaded for ¼ in. iron pipe. The wire hook holds the float up while pan is being cleaned or removed.

No. 30—Automatic Valve and Float only. Packed 12 in a carton. Shipping weight 6 lbs. per dozen, 10 oz. each.

Price:
Each **$1.00**
Dozen .. **$12.00**

HANDY ANDY DROPPINGS BOARD SCRAPER

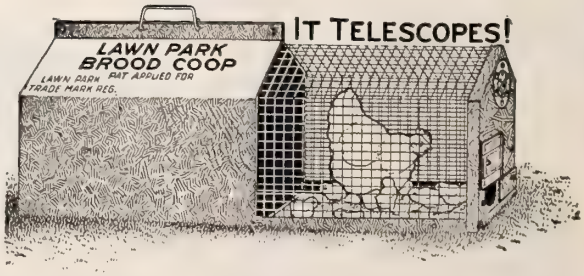
Blade, 3½x12 inches; Handle, 4½ feet long.

Handy Scraper No. 75, each **$0.75**

"CYMACO" DRY MASH FEEDERS

The CYMACO feeder is made of the best galvanized steel with enamelled steel legs to hold the feeder off the ground. The flow of the feed may be regulated by means of two thumb screws at either end of the feeder. Agitators are worked automatically by the fowls while feeding. The CYMACO accommodates twice as many hens as the ordinary hopper feeder. CYMACO is provided with a catch tray which prevents waste of feed and provides a means to close at night.

No. 12, capacity ½ bu., shipping weight 11 lbs., each **$1.50.**



THE LAWN PARK COOP

It is made entirely of galvanized material, will not rust and is proof against all chick enemies. The body of coop is made from strong 28 gauge galvanized steel, the wire park is made from heavy ½-inch mesh galvanized wire screen. The Lawn Park is large and roomy, being 18 inches wide, 19½ inches high, and 24 inches long, with park closed; and 48 inches long with park extended.

Price, each ..... **$3.00** 6 for **$18.00**

Coop without Park, each **$1.20;** 6 for **$6.50.**

Pratts, BUTTERMILK BABY CHICK FOOD

is appetizing, harmless, wholesome, non-stimulating, highly digestible, clean, low in moisture, high in quality, always uniform and complete in every element needed for bone, muscle, feathers and health. Pkgs. **25c** and **50c.**

MONEY CAN BUY NO BETTER

100 lb. bags, 50 lb. bags, 25 lb. bags, 10 lb. bags, 5 lb. bags.

Write for Prices

PRATTS BUTTERMILK GROWING MASH

It produces more pounds of weight on less food. So skillfully and thoroughly processed that all dust, hulls, or other foreign particles are removed. Every ounce is solid food that will build muscle, bone, nerve, feathers, and health. 100 lb. bags.

DIGESTIBLE APPETIZING ECONOMICAL

Write for Prices

PRATTS BUTTERMILK LAYING MASH

This remarkable mash is the standard by which all others are judged. Not alone theoretically right but proven by practical test to be the greatest "egg producer" ever made. There is a good reason for every ingredient in this splendid mash.

Pratt's Buttermilk Laying Mash produces more eggs at less cost per dozen and gives greatest profits.

Victory and Supreme, 100 lb. bags.

Write for Prices

PRATTS LARGE SCRATCH FEED

Gives such splendid results. Made only of the best of plump, sweet, well-seasoned grains—it is the very acme of quality and gives the maximum of results.

EVERY SINGLE GRAIN OF PRATTS IS REAL FOOD

Victory and Utility, 100 lb. bags.

Write for Prices

PRATTS CHICK SCRATCH FEED

Pronounced by authorities everywhere to be the finest, cleanest, purest, most economical and highest quality chick scratch ever offered to the public.

BRAINS CAN THINK OF NO BETTER, WE CAN MAKE NO BETTER, YOU CAN BUY NO BETTER, CHICKS CAN WANT NO BETTER.

Every ingredient is of the highest quality, carefully cracked and processed and repeatedly cleaned to free it of all dust, hulls, flour or other useless or wasteful parts. Contains no large pieces that might choke the chicks.

Victory, 100 lb. bags.

Write for Prices

PRATTS INTERMEDIATE SCRATCH OR DEVELOPING FEED

Never in your life have you seen such a splendid scratch feed. Clean cut, uniform in size, attractive in variety and appearance, free from every particle of dust, hulls, chaff, weed seeds, or foreign materials, perfectly milled and mixed. Pratts Intermediate Scratch Feed is the envy and despair of other feed makers and the delight of the chickens.

Victory, 100 lb. bags.

Write for Prices

BLATCHFORD'S CALF MEAL, DOUBLED FARM PROFITS

Maturing or vealing all your calves rapidly on **Blatchford's Calf Meal,** at a cost of about one-fifth of what you get for your milk, then selling all the milk at a good profit, should appeal to you and to every wide-awake farmer as a good, profitable proposition. These profits both ways, need not be guessed at; they are discernible at a glance. Another source of profit that heretofore has been overlooked by most farmers is the raising of the fall and winter calf on this same milk-substitute. Many farmers and dairymen have taken up winter dairying, reaping the extra big profits on milk and cream during the winter months, but often the calf has been immediately "murdered." Calves raised during the winter give you veal during the term of high prices and are just as easily raised then as during the summer. Fall "freshening" is greatly to be desired. With the help of the silo or an abundance of alfalfa hay the winter feeding keeps up the milk supply until the new grass comes in the spring. The new pastures stimulate the milk-flow and keep it up through the summer. The winter milk prices more than offset the cost. When you stop to consider that this complete milk substitute costs you less than skim milk and is far better for calf-raising—made expressly for the calf—you will get some idea of its high efficiency. It is made from the several kinds of whole grains and seeds, and includes oil, sugar and albuminous compounds, pure locust-bean meal and pure flaxseed ground, with the oil left in. You cannot begin to get the results from any other method of calf-raising that you can get from feeding **Blatchford's Calf Meal, the complete milk equal. PRICES:** 25-lb. bag, **$1.25;** 50-lb. bag, **$2.35;** 100-lb. bag, **$4.60.**

BLATCHFORD'S CHICK MASH

IT GIVES THE CHICKS A CHANCE

Many poultrymen lose from one-third to one-half of all their chicks before they feather out. Improper feeding is the cause. Others are finding they can raise 90 to 95 per cent. of their chicks by starting and growing them on Blatchford's Chick Mash. It is the favored starting and growing feed of the most prominent and successful poultrymen in the country. It contains all the feeds and nourishment chicks need right from the start and shields them from **White Diarrhea, Bowel Trouble and Leg Weakness.** 10 lbs., 25 lbs., 100 lbs.

BLATCHFORD'S "FILL THE BASKET" EGG MASH

The excess nutriment taken by the hen from Blatchford's "Fill the Basket" Egg Mash causes the development of eggs so that she has to lay during the winter, while the ordinary unbalanced rations tend to produce fat hens, but lean profits.

Blatchford's "Fill the Basket" Egg Mash is made up of Blatchford's Calf Meal, the complete milk-equal, combined with the best quality meat and fish scraps and alfalfa and grain meals. This makes a perfect, balanced egg-producing mash, consisting of protein, 19 per cent; fat, 4 per cent; fiber, 10 per cent.

25 lb. bags, 100 lb. bags.

BABY CHICKS

Bred to lay from big, healthy stock. We start shipping about March 1st, and will continue until June 1st.

We will commence booking orders in January for future shipment, so, send in your order early to get prompt service.

Owing to the perishable nature of Baby Chicks, we ask orders to be accompanied with cash or money-order.

Prices for January subject to change without notice, in the following strains, only:

Variety	50	100	500	1,000
S. C. WHITE LEGHORNS	$5.00	$8.00	$37.50	$70.00
BARRED & WHITE PLYMOUTH R.	6.00	10.00	47.50	90.00
S. C. RHODE ISLAND REDS	6.00	10.00	47.50	90.00
WHITE WYANDOTTES	6.00	10.00	47.50	90.00
BUFF ORPHINGTONS	6.00	10.00	47.50	90.00
BLACK AND WHITE GIANTS	7.00	12.00	57.50	110.00
LIGHT CROSSBREEDS	6.00	10.00	47.50	90.00
DARK CROSSBREEDS	6.00	10.00	47.50	90.00
HEAVY ASSORTED, MIXED	5.50	9.00	42.50	80.00
SUPREME QUALITY				
WHITE LEGHORNS		10.00	47.50	90.00

APRIL and MAY prices ..... **$1.00 per 100 less than above**

All prices prepaid by parcel post and subject to change without notice.

All orders for Baby Chicks, subject to our confirmation. Kindly send cash or money-order with your orders, please.

PRATTS POULTRY, HORSE AND CATTLE REMEDIES

PRATTS ANIMAL REGULATOR

Intelligent, humane and prudent owners of horses, cows and other livestock realize the value of good tonics, regulators and remedies. For nearly half a century Pratts has been adding to its successful record.

Packages: 25c., 45c., 85c.
25-lb. pails $2.50
100-lb. drums 8.50

Keep your cows thrifty while forcing milk production, without increased cost for feeding or care by giving them

PRATTS COW TONIC

Promotes healthy appetite, good digestion, increased vigor, greater milk production. A wonderful all-around tonic. **50c.**

PRATTS RED MITE SPECIAL

An effective liquid for exterminating the blood-sucking mites. To be sprayed or painted on roosts, dropping boards, nests, and other places where mites hide. Use these preparations regularly.

PRATTS RED MITE SPECIAL
1 qt., **60c.**; ½ gal., **$1.00**; 1 gal., **$1.60.**

PRATTS DIP AND DISINFECTANT

Three times as powerful as crude carbolic acid. A sure deodorizer, germicide and **liquid lice killer.** Use it in Roup, Colds and other contagious diseases.

¼ gallon ..... $ .50
½ gallon ..... .85
1 gallon 1.45

PRATTS COD LIVER OIL

Vitamin Tested for Poultry and Stock.
1 gallon..... $1.75
5 gallon..... 8.50
30 gallon..... 40.00

PRATT'S ROOST PAINT

CONTAINS NICOTINE COMPOUNDS KILLS LICE AND MITES

Just paint it on the roost. If the roost is dusty or dirty, clean it off.

If the roost has been whitewashed scrape it off and apply Pratt's Roost Paint directly to the top of the roost.

Several applications may be necessary as many lice eggs may hatch out after the first treatment.

You will find this treatment very effective and satisfaction is assured.

PRICES
½ Pt. Can..... $.75 1 Pt. Can..... $1.25

HEALTHY HENS AND LOTS OF EGGS

You may expect vigorous, laying, paying birds when you give them

PRATTS POULTRY REGULATOR

daily. It contains just those elements needed to keep poultry in perfect health. Both a tonic and digestive. Prevents common poultry ailments. Produces growth, gives increased vitality, and hastens maturity. Makes pullets early and constant layers.

Packages: 25c. and 50c.

12-lb. Pkg., **$1.40**; 25-lb. Pail, **$2.50**; 25-lb. Bags, **$2.40**; 100-lb. Drums, **$8.25.**

PRATTS POULTRY WORM POWDER

Worms in poultry are one of the greatest menaces to the poultry raiser. There are a number of kinds of worms that infest poultry, sapping their vitality, reducing their egg-laying capacity. Pratts Worm Powder will greatly aid your flock and put them on a laying, paying basis.

Packages: 50c. and $1.00

12-lb. bags, **$1.90**; 25-lb. bags, **$3.60**; 100-lb. bags, **$12.00.**

PRATTS POWDER LICE KILLER

25c. and 50c.

Effective, non-poisonous, non-irritating. May be used wherever a powder is suitable. A splendid deodorizer. Will kill lice on horses, cattle, dogs or cats.

PRATTS SPECIAL COMPOUND

For indigestion, sour crop, and bowel troubles commonly called "cholera."

PRATTS SPECIAL COMPOUND is unequaled. Easy to use and very effective. Successfully used all over the world.

Packages: 50c.

PRATTS CHICK TABLETS

(Formerly called "Pratts White Diarrhea Remedy")

It is only necessary to give this remedy in the drinking water from the first drink. This remedy has saved many dollars worth of chicks to poultry raisers. You can depend on it.

25c. and 50c.

FLY SPRAY

Knox Out Spray is a product of the General Laboratories, Inc., makers of B. K. It is of the highest grade and very effective.

The 5 - gallon container is an improved Easy Pour Can making it very convenient to use.

1 gal. can..$1.50 5 gal. can..$6.75

PRATTS GAPE COMPOUND

PRATTS GAPE COMPOUND is an effective guaranteed treatment. For external administration — safe, sure, and gives quick relief.

Packages: 50c.

PRATTS N-K TABLETS

For Worms in Poultry

N-K TABLETS contain Nicotine and Kamala in the proper therapeutic dose. These two vermifuges are most highly recommended by all leading authorities.

PRATTS N-K TABLETS have an air-tight, insoluble coating which keeps the contents fresh indefinitely. This coating is not dissolved by water, air does not penetrate through it.

When the tablet is given to the bird, it passes unchanged through throat, crop and glandular stomach until it reaches the gizzard, where it is broken, and the fresh, powerful drugs released directly into the worm-infested intestines.

Adult Size
50 Tablet Pkg. ..... $ .75
100 Tablet Pkg. 1.35
500 Tablet Pkg. 5.00
1000 Tablet Pkg. 9.00

Chick Size for Birds under 4 lbs.
50 Tablet Pkg. ..... $ .50
100 Tablet Pkg. ..... .90
500 Tablet Pkg. 3.50

PRATTS R-P POWDER AND TABLETS

Tablets or Powder: 25c., 50c.

Contains remedies which are quickly absorbed, purify the blood and reduce fever. Pills are convenient for individual treatment. Many poultrymen use this remedy the year round as an effective preventive.

OLD HICKORY SMOKED SALT

Old Hickory Smoked Salt improves keeping qualities because the smoke on the salt is available when its preservative help is most needed and best utilized. The smoke permeates the meat while the other curing ingredients are being absorbed — resulting in perfect blending of all the flavors throughout every tissue and developing uniformly throughout the meats that delicious, genuine hickory wood flavor everybody likes.

Package, about 10 pounds..... **$1.00**

DR. HESS POULTRY PAN-A-MIN

It is now a greatly improved product. More minerals have been added. It contains new medicinal ingredients, and other active ingredients in different proportions. The improved product has been given a new name. Pan-a-Min is of high value to moulting hens, in egg production, in reducing chick mortality, in bone and feather growth, and in maintaining health. It does not take the place of feed and no feed can take the place of Pan-a-Min. The cost is less than a penny per hen per month.

1½-lb. pkg., **25c**; 3-lb. pkg., **45c**; 7-lb. pkg., **85c**; 15-lb. pkg., **$1.75**; 25-lb. pkg., **$2.50**; 100-lb. pkg., **$8.50.**

DR. HESS POULTRY VER-MI-TROL

No individual handling of birds is necessary. It is simply given with the feed in two ten-day courses, three weeks apart. It is not drastic, does not throw hens or pullets off production and does not interfere with growth and development of young birds. As a preventive measure to avoid worm infestations, a twice-a-year flock treatment, early Summer and late Fall, is strongly recommended.

Pkg., **25c** and **45c**; 4-lb. Pkg., **$1.00**; 10-lb. Pkg., **$2.25**; 25-lb. Pkg., **$5.00.**

DR. HESS CHICK TABLETS

(Formerly White Diarrhea Tablets)

Most diarrhea conditions in chicks often mistaken for bacillary white diarrhea, are results of improper feeding or brooding, and can be corrected by Dr. Hess Chick Tablets. These tablets are a bowel stringent to be given in drinking water. Once the tablets are in solution, they remain so indefinitely. Packages.....**50c** and **$1.00**

DR. HESS POULTRY TABLETS

(Formerly Roup Tablets)

While there is no absolute cure for roup, Dr. Hess Poultry Tablets are of high value in treating locally the swellings incident to the disease. The tablets are used as a local antiseptic and to medicate the drinking water. Thus used they aid in preventing spread of the disease. Pkgs., **25c, 50c** and **$1.00.**

SAL-VET

SAL-VET is a medicated salt—a safe, simple, inexpensive remedy which gives stock the medicines they need along with the **Salt** they crave. It requires no dosing, no drenching, no starving. It goes into the stomach and intestines and loosens the leach-like hold these blood-sucking parasites have on the tender linings. It drives the robbers out—without bother or trouble to you. Your animals eat SAL-VET in place of common salt and thus **doctor themselves.**

A SINGLE WORM-INFESTED HOG IN YOUR HERD IS A CONTINUAL MENACE TO YOUR HOG PROFITS

It is the worm-infested, half-starved animals that spread the deadly **worm-curse** over your farm. They are **disease-breeders** and **disease-carriers** of the worst kind. Helpless themselves to resist contagion, they let down the bars to the cholera scourge and death stalks through your herd. They are the **danger spots** in every herd.

10-lb. packages "Sal-Vet"	at	**$ 1.00** each
25-lb. packages "Sal-Vet"	at	**2.25** each
100-lb. kegs "Sal-Vet"	at	**6.75** each
200-lb. barrels "Sal-Vet"	at	**12.00** each

BLACKMAN'S SALT BRICKS

Easiest and best way to give medicine to stock. It salts them too.

Blackman's Medicated Salt Brick, originated by a noted Veterinary Surgeon, insures stock getting the needed medicine without trouble or loss of time to their owners. When dropped in the feed-box, the brick is licked by the animal as needed, just as people use salt with their meals. Contains Copperas for Worms, Sulphur for the Blood, Saltpetre for the Kidneys, Nux Vomica, a blood tonic, and Pure Dairy Salt. It is a wonderful improvement over the old plan. **Why not try it?**

DOZEN **$3.00**

DR. HESS STOCK TONIC

This product has been serving the dairy interests of this country for upwards of thirty-five years. A summary of many improved tests covering three whole years shows that cows receiving Dr. Hess Stock Tonic produce on the average 54% more profit than cows not getting the Tonic. The Tonic has been recently improved in keeping with latest scientific discoveries and feeding practices. All the minerals proved necessary to the heavy producing dairy cow have been added. Pkg., **25c, 45c**; 5-lb. Pkg., **65c**; 15-lb. Pkg., **$2.00**; 25-lb. Pkg, **$2.50**; 100-lb. Pkg., **$8.50.**

DR. HESS HOG SPECIAL

A conditioner and mineral supplement for hogs only. Dr. Hess Hog Special is an appetizer, laxative and diuretic—also a perfectly balanced mineral supplement. It supplies in all—sufficient quantities every mineral necessary for the hog's growth and thrift. Hog Special makes possible common sense worm control. It is given in the feed. No fasting or individual dosing is necessary. It greatly retards worm reinfestation. The cost of using Hog Special is only 12½c per hog per month. Pkg., **45c**; 15-lb. Pkg., **$1.75**; 25-lb. Pkg., **$2.50**; 100-lb. Pkg., **$8.50.**

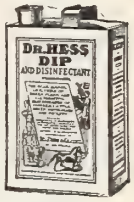
DR. HESS ANTISEPTIC POWDER

A ready help in emergencies—deserves a place on every stable shelf. For treatment of wire-cuts, scratches, galls and wounds. Quickly forms coating over wound and starts healing. Package.....**25c**

INSTANT LOUSE KILLER

Kills Lice on Poultry, Horses, Cattle, Sheep Ticks, Bugs on Cucumber, Squash and Melon Vines; Cabbage Worms, Slugs on Rose Bushes, etc. Sold in sifting-top cans—look for the word **"Instant"** before buying. Price: 1 lb. **25c.**; 2½ lbs. **50c.** GUARANTEED

Dr. Hess Dip and Disinfectant



One Gallon of Dip makes from 70 to 100 gallons effective solution. Spray it on roosts. Sprinkle it over the runs and in all cracks and crevices. Makes a splendid dip for hogs and sheep. It's a sure parasite and disease germ destroyer. Purifies stables, troughs, sinks, drains. 1 qt., **50c**; ½ gal., **85c**; 1 gal., **$1.45**; 5-gal. can, **$8.25**; 50-gal. drum, per gal., **$1.25.**

BOURBON REMEDIES

Bourbon Poultry Remedy—A few drops in fowls' drinking water cures and prevents white diarrhoea, cholera and other chick diseases. Use daily to keep your chicks healthy. Don't wait until disease strikes. Get it today.

Bourbon Poultry Remedy, trial bot.	**$ .60**
Bourbon Poultry Remedy, ½ pt. bot.	**1.00**
Bourbon Poultry Remedy, pt. bottle	**1.50**
Bourbon Poultry Remedy, qt. bottle	**2.25**
Bourbon Poultry Remedy, ½ gal.	**3.50**
Bourbon Poultry Remedy, gal. size	**6.00**
Bourbon Hog Remedy, quart size	**2.25**
Bourbon Hog Remedy, ½ gal. size	**3.50**
Bourbon Hog Remedy, gal. size	**6.00**

SODIUM FLUORIDE

Sodium Fluoride for lice is the method recommended and endorsed by the United States Department of Agriculture, by Purdue University and most other leading agricultural colleges and experiment stations everywhere.

½-pound box, with sifter top	**35c.**
1-pound box, with sifter top	**60c.**

ROUP-OVER

A wonderful, new, prompt and positive treatment for **Roup, Canker** and **Colds** in **Poultry.**

Roup works fast. It usually begins with a cold; after that the disease progresses rapidly. Roup is one of the most serious of poultry diseases. Stop it quickly with **Roup-Over.**

Large Bottle **$ .50** Extra Large Bottle **$1.00**

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

BY USING

KOW-KARE

THE GREAT COW MEDICINE

Watch every cow, and at the first sign of disorder in appetite, digestion or flow of milk, give a dose of **KOW-KARE.** Carefully follow the directions as given on the box, and that cow will get well.

KOW-KARE is in powder form, to be given in regular feed. It cures abortion, barrenness and scours, caked udder, removes retained afterbirth, purifies the blood, strengthens the appetite, vitalizes the nerves and prevents disease. It increases the milk. It is a medicine for cows only. **Prices, small size, 65c.; large size, $1.25.**

BAG BALM

For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as **Bag Balm.** It is a soothing, penetrating ointment, especially adapted for all those serious and annoying troubles known as caked bag, cow pox, chapped, cracked and sore teats, bunches, chafing and inflammation of all kinds. **Bag Balm** penetrates through the skin and inner tissues at once, reaching the glands, where it reduces the inflammation, breaks up the bunches and spreads its cooling, softening effect to all the affected parts. This remedy has met with unequaled success, and is found on the most progressive farms in the country. **Price** ..... **60c.**

AMERICAN HORSE TONIC

This tonic is a specific for horses, an actual medicine that goes to the root of all horse ailments and removes the cause of the trouble. A few doses will send a dull, listless horse on its way rejoicing. **Small size, 35c.; Large size** ..... **65c.**

BONE MEAL FOR POULTRY

This is exactly the same as the Cracked Bone described below, only it is ground much finer. **5 lbs. 25c, 10 lbs. 40c, 50 lbs. $1.50, 100 lbs. $2.50.**

CRACKED BONE FOR POULTRY

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. We carry two sizes—No. 1 for grown fowls, and 2 for young chicks. **5 lbs. 25c, 10 lbs. 40c, 50 lbs. $1.50, 100-lb. sack $2.50.**

CRUSHED OYSTER SHELLS

It aids digestion as well as supplying lime. No. 3 for young chicks. **5 lbs. 10c, 100 lbs. 80c, 500 lbs. $3.75. Special prices in larger quantities.**

POULTRY GRIT

5 lbs. 10c, 100-lb. sacks 80c, 500 lbs. $3.75.
(Poultry, Pigeon and Chick Sizes.)

FINE, MEDIUM AND COARSE CHARCOAL

A little ground charcoal mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy. We carry three sizes, one for grown fowls, one for small chicks, and pulverized. **5 lbs., 25c, 10 lbs. 40c, 25 lbs. $1.00, 50-lb. sack $1.75, 100 lbs. $2.75.**

G. & T. CO.'S HIGH GRADE PURE MEAT SCRAP OR MEAT MEAL

50 per cent Protein

This Meat Scrap is the highest possible grade, and is made from Pure Meat trimmings and cracklings. It is fully guaranteed as to quality and will keep indefinitely.

Price: 5 lbs ..... **25c** **100-lb. bags** **$2.50**

FOR PREVENTION • FOR CURE

AVICOL

TRADE MARK

White Diarrhoea and Chicken Cholera can be cured and prevented by **AVICOL.**

STOP THE LOSSES!

AVICOL SAVES THE CHICKS—Avicol has a specific and selective action on the germs causing Cholera and White Diarrhoea. **It knocks the germs and gives the chick a chance.**

Prices ..... **50c. and $1.00**

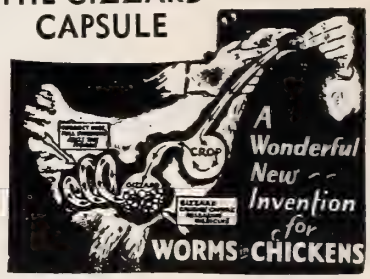
Science has solved another important problem, one that enables poultrymen to make more money. Disease problems that for years have baffled government investigators and experienced poultrymen need no longer alarm you. Bloody diarrhea in chicks has been stopped. Terrific losses in pullets and old hens from coccidiosis, worms, and other diseases have been arrested.

It works like magic . . . this new method of disease control is so simple. It only takes five or ten minutes a week to prevent coccidiosis in a big brooding house.

1 Gal., $1.50; 30 Gal. $1.30 Gal.; 50 Gal. $1.20 Gal.

THE GIZZARD CAPSULE

ADULT OR HEN SIZE	
50 Capsules	$1.00
100 Capsules	1.75
250 Capsules	4.00
PULLET SIZE	
50 Capsules	$0.75
100 Capsules	1.35
250 Capsules	3.00
CHICK SIZE	
50 Capsules	$0.50
100 Capsules	.90
250 Capsules	2.00



The GIZZARD CAPSULE will quickly rid your chickens of both tape worms and round worms. Five times as effective as worm remedies given in food or drink. Why? The GIZZARD CAPSULE is insoluble and carries the medicines intact to the gizzard where it is taken like a grain of corn, releasing the medicines into the worm infested intestines in full strength and undiluted.

As easy to administer as giving a pill. Suitable for chicks at 10 weeks (2 lbs.) to full grown. Don't feed worms. Stop this waste and increase your profits. Give GIZZARD CAPSULES now. Satisfaction guaranteed or money refunded.

DON SUNG

TABLETS FOR EGG LAYING

Scientifically compounded to make a balanced tonic and regulator for hens and to stimulate egg laying. A concentrated medicine—no filler.

Price 50 cents and $1.00 Packages

POULTRY LITTER

Used with great success by leading poultrymen instead of straw and shavings. It absorbs all moisture, retains the ammonia and keeps dampness down in the laying house. One or two applications a season will give great results.

Price, per bale **$2.50**

BLACK LEAF WORM POWDER

An odorless, tasteless, dry compound containing nicotine that remains insoluble in the mouth, throat, crop and gizzard, hence non-toxic to poultry. When given to poultry it mixes with food in the crop and gizzard, yet passes through the digestive tract unchanged until it reaches the intestines where the large round worm infestation occurs. The nicotine is released immediately, and dead round worms begin to be expelled a few hours later, continuing for 24 to 36 hours.

4 Ounce Package	$1.00
1½ Pound Package	4.00
3 Pound Package	7.50

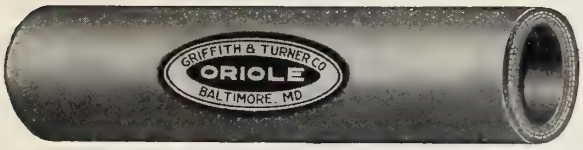
BLACK LEAF WORM PELLETS

They have the same advantage as to lack of odor, taste and toxicity to poultry as Black Leaf Worm Powder. Disintegrates and becomes mixed with food in crop and gizzard—but the nicotine is not released until reaching the intestines, where it kills the round worm.

100 Pellets	$1.00
500 Pellets	4.00
1000 Pellets	7.50

ORIOLE GARDEN HOSE

LONG LASTING—FLEXIBLE—WILL NOT KINK



The rubber used in its construction is a high grade stock that will not rapidly deteriorate with age. The rubber lining or tube is made seamless and ample strength is given the hose by a braided cotton jacket directly applied by a special machine. The hose is protected against external wear by a tough, resilient, rubber cover.

¾ inch, per foot.....**$.12**
½ inch, per foot.....**.10**

GRITCO GARDEN HOSE

The Kind That Gives Long Service

Gritco has features that recommend it to discriminating purchasers. It will not kink. Drag it around and you cannot separate the cover from the hose, because the rubber is seamless and tough. The wall of the hose is reinforced with strong cords, braided on, which are firmly embedded in the rubber and cannot come loose. This affords great strength for the highest water pressures. Gritco Garden Hose is flexible, strong and long lasting. ¾ inch, per foot..... **$.18**

HOSE FOR SPRAY PUMPS

Spray Hose is made especially for spray pumps, being so constructed that spraying solutions have the least possible effect on them.

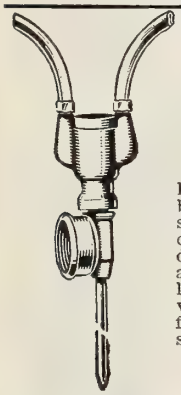
½ inch Power Spray Hose, per foot.....**$.20**
½ inch Spray Hose for Hand Pumps.....**.15**
⅝ inch Spray Hose for Hand Pumps.....**.15**

"VICTOR" HOSE REEL

is constructed with channel steel frame; strong, cast-iron wheels; solid steel reel arms and 9-inch drum of heavy corrugated steel.

Weight, 12⅛ lbs., bundled for shipping. Capacity, 100 feet of ¾-inch rubber hose.

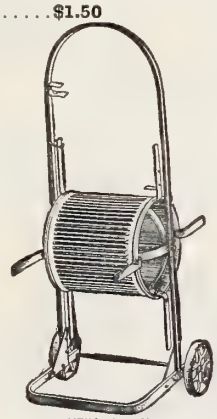
Price.....**$1.50**



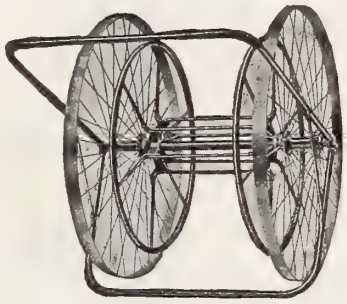
New Improved Whirling Shower Sprinkler

Sprinkles exactly like rain—throws beautifully diffused spray. Sprinkles circles up to 35 ft. in diameter. Runs on any pressure from 5 lbs. up. Throws more water and throws it farther than any other sprinkler of its type.

Price.....**$.75**



"Victor"



HOSE REELS

PARK REEL No. 21

A tubular iron reel and frame mounted on steel wheels, tires 1⅛ inches.

Height of wheels.....28 in.
Outside width over all.26 in.
Shipping weight.....45 lbs.
Capacity, ¾-in. hose.200 ft.
Capacity, 1-in. hose..100 ft.

Price.....**$15.00**

STYLE "B" No. 10 HOSE REEL

Undoubtedly the best garden hose reels on the market. The reeling or unreeling is very easy; there are no exposed spokes to interfere with either operation.

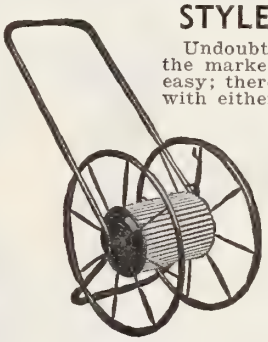
Reels cannot tip over when unreeling, the large rims forming the wheels make them very easy to move about.

The weight of the hose is borne upon the rims and is not carried on the handle as in other types.

Absolutely all metal, tubular steel rims and frame; corrugated galvanized drum. Frame and reel enameled green.

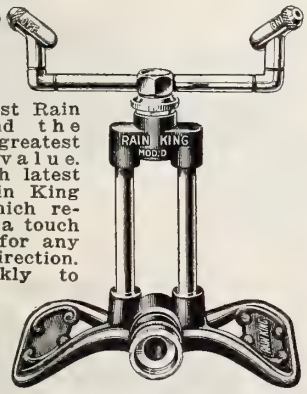
Style "B" No. 10—Diam. of rim, 21 inches; weight 15 lbs. capacity, 100 ft. of ¾ inch rubber hose.

Price.....**$4.00**



Style "B" No. 10

Model D Rain King

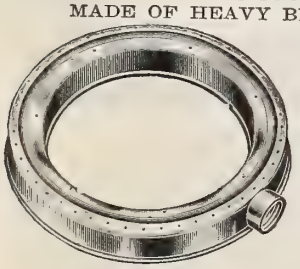


The latest Rain King and the world's greatest sprinkler value. Fitted with latest patent Rain King nozzles which require just a touch to adjust for any spray or direction. Sets quickly to turn fast or slow—or for stationary Sprinkling.

Price $1.50

FOUNTAIN RING SPRINKLER

MADE OF HEAVY BRASS



Easily moved over the lawn without turning off the water. The mist-like spring is a veritable "thing of beauty."

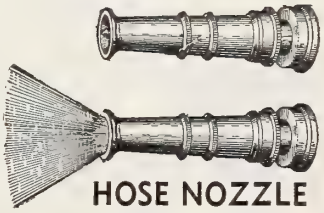
Price 85c

SHERMAN PORTABLE SPRAY HEAD

For connecting with hose in series to create a movable and flexible lawn sprinkling system.

The most effective Spray Head made, and at the lowest price.

Ingenious Spray Head construction produces a beautifully perfect mist-like spray, evenly covering wide area, yet conserving water volume to a degree that permits a greater number of heads to be used on normal pressures without reducing volume on those farthest from water supply. **Price, each**.....**75c**



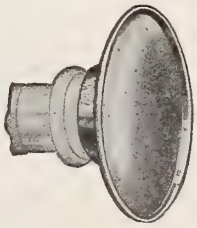
HOSE NOZZLE

This nozzle is made from solid brass and is adjustable for all kinds of spraying, from solid stream to the finest spray, or can be shut off entirely.

¾-in. Diamond Nozzle.....**60c**

Parcel Post Weight 1 Pound

THE FOUNTAIN SHOWER



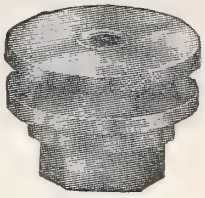
A Hose Nozzle with the "Mist-like Spray"

This shower Sprinkler is the best thing for attaching to the hose to be used like a watering pot. It gives a fine gentle shower and does not injure the plants as a heavy stream might do. Parcel post weight 1 lb.

Price **40c**

MISTY JR. NOZZLE

THE BEST NOZZLE YET



This nozzle has been tested under all conditions, and found to give entire satisfaction. It produces a perfect mist and covers a wide area.

Brass, with extra steel disk....**$1.00**

Can also supply these nozzles with 45-degree angle. Same prices as above.

Extra Steel Disks for Misty, Jr., Nozzle **5c**

LONG SHANK HOSE COUPLING

Fig. 67 — Brass coupling, has one end cut ¼-inch gas pipe and other end shank to wire into hose. Made from solid brass. **Price,** each..**35c**

45° BEND BRASS Y

Fig. 1584 — Brass Y with the two branches of the Y bent as shown.

Price **50c**

Fig. 1074½ — Brass Y straight. **Price** **50c**

60° BRASS ELBOW

Fig. 1107 — Sixty degree brass elbow, threaded both ends ¼-inch pipe for use with any nozzle.

Price **30c**

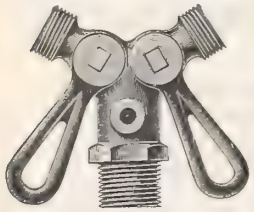
PRESSURE REGULATING VALVE

Designed for controlling the pressure on Power Spray Pumps. Can be set to operate against any pressure up to 400 pounds.

Myers Pressure Regulating Valve for ¾-inch pipe, price _____ **$8.00**

Fig. 2138

MYERS DOUBLE CUT-OFF

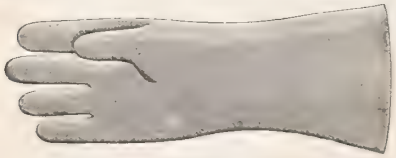


Is fitted for ¾ or ½ inch hose couplings on the discharge ends, and 1 inch pipe thread on the inlet.

Price _____ **$3.25**

RUBBER GLOVES

Extra Heavy, All-Rubber Seamless Gloves. Price _____ **$3.00**



VERMOREL NOZZLE

This is an improvement on the old style Vermorel Nozzle; spray is finer and more evenly distributed. The cap with smaller hole makes finer spray.

Fig. 55—Gould's Vermorel Nozzle, each, One Discharge.....**$1.25**

LEVER SHUT-OFF COCK

Fig. 64 — Lever Shut-off Cock, all brass. Made for use with Pipe Extension. Requires quarter turn only to shut off complete. This quick action makes it a practical device for the purpose. Tapped ¼-inch pipe size.

Price, each....**$1.00**

REDUCING COUPLING

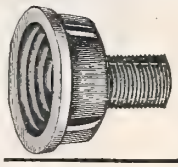


Fig. 65 — Coupling small end cut ¼-inch pipe thread to fit our spray nozzles; large end cut to fit ⅜-inch, ½-inch or ¾-inch male hose coupling.

Price **30c**

Fig. 49½

BRASS Y

Brass Y is cut ¾-inch. Female Hose inlet, with lateral discharges to fit ½ and ¾ inch Hose Couplings. **Price**....**75c**

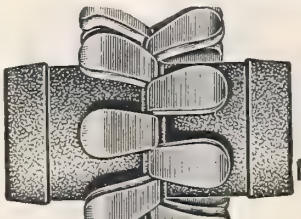
PRESSURE GAUGE

Fig. 1721

Up to 400 pounds pressure.

Price, 3½-inch____**$3.00**

GIBBS HOSE MENDER



The convenience of this mender lies in its simple application. Simply cut the hose apart where a leak occurs, insert the tube and hammer down the steel fingers.

Price, each, ¾-inch.....**$0.10**
Dozen, ¾-inch **1.15**

BORDEAUX NOZZLE

The Bordeaux Nozzle can be readily changed from a solid stream to a mist-like, fan-shaped spray. Should there be any clogging of the nozzles with the spray material, it is easily remedied by turning the handle.

Price **$1.00**

HOSE COUPLING

Fig. 1284

BRASS HOSE COUPLINGS, FIG. 1284

Fig. 1284 is a special Brass Hose Coupling, made with double length nipples, with heavy ribs, of sufficient length to use two hose bands if necessary. Especially adapted for use with Power Spray Pumps. Made in ½-in. size.

Price, each **60c**

SHERMAN'S BRASS HOSE CLAMPS

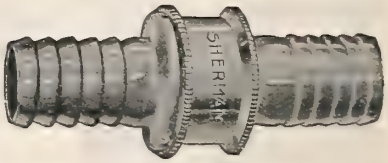
Fig. 1272. each, ½-in. **5c**

Brass Hose. ¾-in. _____**5c**

Clamps. 1-in. _____**15c**

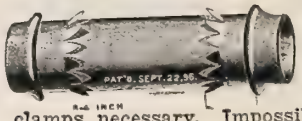
Fig. 504

HOSE COUPLING



Size, inches	½	¾	1	1½
Complete	20c	20c	35c	$1.00
Female Half	15c	15c	25c	.75

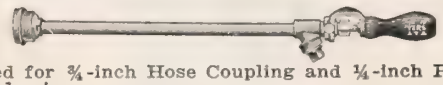
COOPER HOSE MENDER



No clamps necessary. Impossible to pull out of hose. Each **10c,** dozen **$1.00**

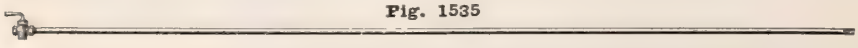
THE MYERS POWER SPRAY GUN

Length overall 26 inhes. Utilizes the entire capacity of any power spray pump and does away with all bamboo extensions, nozzles and fittings. **Fig. 1824**



Fitted for ¾-inch Hose Coupling and ¼-inch Pipe.
Our special price_____**$6.00**

Fig. 1535



EXTENSION SPRAY-RODS

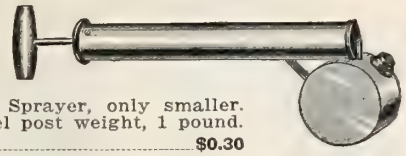
Fig. 1536

Bamboo—8 ft. with stop cock, **$4.20;** without stop cock____**$3.25**
10 ft. with stop cock, **$4.75;** without stop cock_____ **3.75**

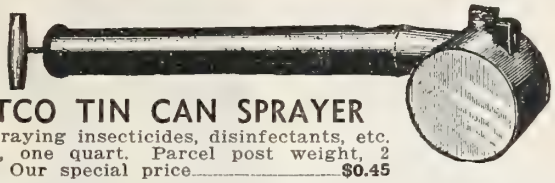
Fig. 480—8 ft. extension, with coupings _____**$0.65**

Fig. 1535—8-ft. pipe extension, with stop cock_____ **1.65**

MIDGET TIN HOUSE SPRAYER



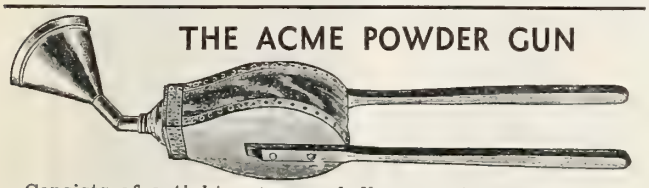
Similar to Tin Can Sprayer, only smaller. Holds half pint. Parcel post weight, 1 pound.
Price **$0.30**



GRITCO TIN CAN SPRAYER

For spraying insecticides, disinfectants, etc. Capacity, one quart. Parcel post weight, 2 pounds. Our special price **$0.45**

THE ACME POWDER GUN



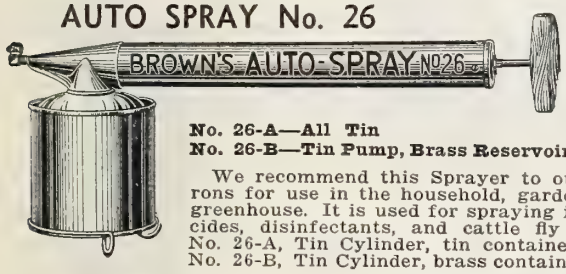
Consists of a tight valveless bellows equipped with a distributing tube or nozzle, a funnel, a spreader for diffusing the spray and an elbow for placing the spray on the underside of the leaves. Parcel post weight, 2 pounds. Special price, **$1.75**

No. 26-BG

AUTO SPRAY No. 26-BG

The glass tank enables the operator to know exactly how much liquid is in the container and it is more easily cleaned when a number of different solutions are to be sprayed. Capacity, 1 quart. Price, **$1.10**

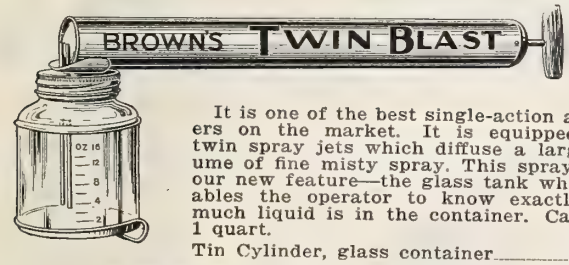
AUTO SPRAY No. 26



No. 26

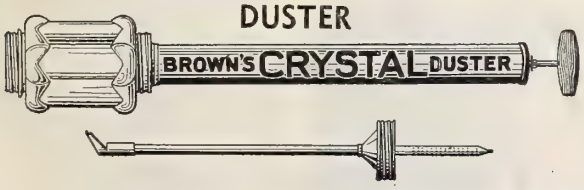
No. 26-A—All Tin
No. 26-B—Tin Pump, Brass Reservoir

We recommend this Sprayer to our patrons for use in the household, garden, and greenhouse. It is used for spraying insecticides, disinfectants, and cattle fly spray.
No. 26-A, Tin Cylinder, tin container **$0.75**
No. 26-B, Tin Cylinder, brass container **1.35**



It is one of the best single-action atomizers on the market. It is equipped with twin spray jets which diffuse a large volume of fine misty spray. This sprayer has our new feature—the glass tank which enables the operator to know exactly how much liquid is in the container. Capacity, 1 quart.
Tin Cylinder, glass container **$0.65**

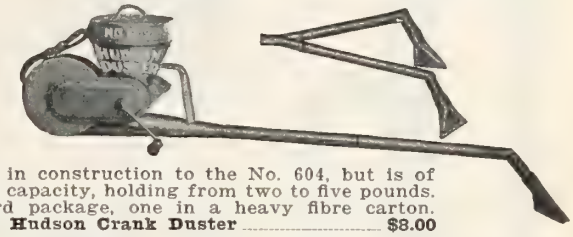
BROWN'S CRYSTAL DUSTER



Brown's Crystal Duster is one of the newest type Dusters on the market. It is equipped with a long extension and adjustable nozzle which enables the operator to dust from underneath without bending. Capacity, 1 quart.
Brown's Crystal Duster **$1.25**

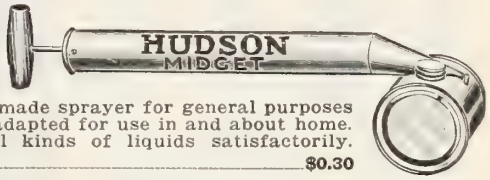
HUDSON CRANK DUSTERS

The **No. 604 Hudson Crank Duster** has two agitators. The oscillating agitator keeps the powder from caking in the hopper. The Rotary Agitator feeds the powder down into the delivery spout. Indicator has an unusual range of adjustment and can be set to feed exactly the amount of powder required. Discharge equipment consists of two nozzles, two elbows, a Wye connection, and four 15-inch tubes. Capacity 5 to 10 pounds, depending on powder used. Weight 22 pounds.
No. 604 Hudson Crank Duster **$13.50**



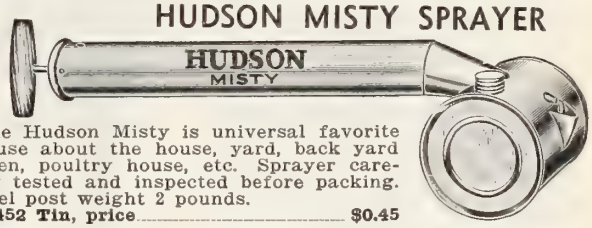
No. 603 Hudson Crank Duster, similar in construction to the No. 604, but is of smaller capacity, holding from two to five pounds. Standard package, one in a heavy fibre carton.
No. 603 Hudson Crank Duster **$8.00**

HUDSON MIDGET SPRAYER



A small well made sprayer for general purposes and especially adapted for use in and about home. Will handle all kinds of liquids satisfactorily.
No. 202, price **$0.30**

HUDSON MISTY SPRAYER

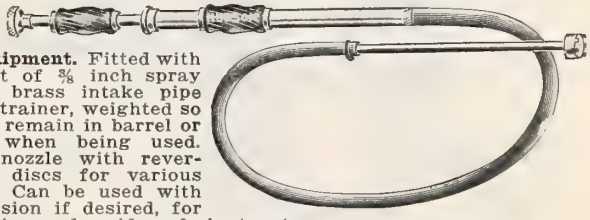


The Hudson Misty is universal favorite for use about the house, yard, back yard garden, poultry house, etc. Sprayer carefully tested and inspected before packing. Parcel post weight 2 pounds.
No. 452 Tin, price **$0.45**

HUDSON CONTINUOUS SPRAYER

The Hudson Continuous Sprayer handles very efficiently Fly Oils, Insecticides, Disinfectants, and other solutions which are free from sediment. All working parts are brass with siphon tube and ball check readily accessible. **Pump,** heavy tin or brass; 1½ in. dia., 14 in. long.
No. 426 Tin, 75c. **No. 426-B Brass, $1.35.**

HUDSON TROMBONE SPRAYER



Equipment. Fitted with 3 feet of ⅜ inch spray hose, brass intake pipe and strainer, weighted so as to remain in barrel or pail when being used. Fog nozzle with reversible discs for various jobs. Can be used with extension if desired, for reaching under sides of plants, etc.
No. 133 Trombone, price, each **$3.95**

HUDSON MAJOR DUSTER

Pump. Heavy tin, 2¾ inches diameter, 9 inches long. Filled with special Hudson plunger leather and heavy rod.
No. 665, price **$1.25**

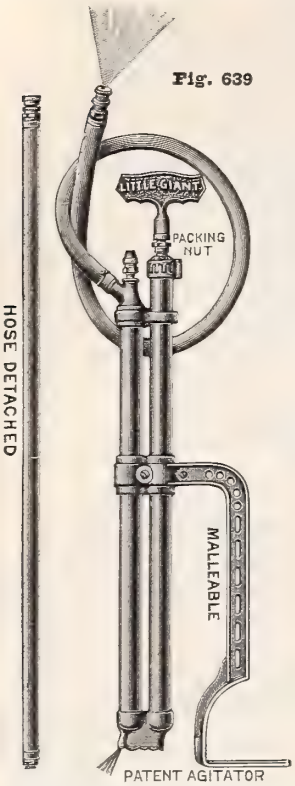


Fig. 639

LITTLE GIANT BRASS SPRAY PUMP AND FIRE EXTINGUISHER WITH AGITATOR

Fig. 639—Spray Pump is constructed entirely of brass. It is provided with a large air chamber and has brass ball valves and detachable hose.

No. 327½—Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle.

Our Special Price **$3.75**

No. 328—Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle, and an eight-foot pipe extension.

Our Special Price **$4.40**

BRASS BALL VALVES

LEVER BUCKET SPRAY PUMPS

Fig. 632 represents the Myers Lever Bucket Spray Pump, made of brass and fitted with brass ball valves and patented agitator. The cylinder is 1½ inch in diameter. This pump can be operated with one-half the power of the ordinary bucket spray pump, owing to the advantage of the lever handle.

Fig. 632, No. R324 Lever Bucket Spray Pump, with agitator, complete with hose, Vermorel spray nozzle.

Our Special Price **$6.00**

No. R324A Lever Bucket Spray Pump, with agitator, complete with hose, Vermorel nozzle and eight-foot pipe extension.

Our Special Price **$6.65**

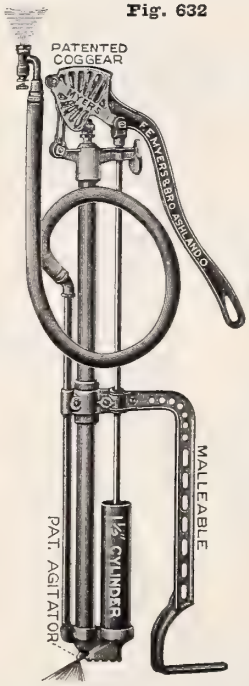


Fig. 632

THE MYERS WHITEWASH, COLD WATER PAINTING MACHINE AND GENERAL PURPOSE SPRAYER No. 329

This General Purpose Sprayer with patent Double Agitator is a most complete and serviceable outfit. The tank is made of heavy galvanized iron with a wide bottom so as to set steady in operation. The cover is removable, is held securely in place by two thumb nuts, one on each side, which holds the cover tight and prevents spilling or splashing of the liquid. Holds 7 gallons.

This is an excellent outfit for whitewashing chicken houses, fences and outbuildings. For spraying trees, shrubbery, plants, and in fact anything where a small sprayer can be used. This outfit will be found just the thing.

Complete with Hose, Nozzle, Agitator and Extension Rod.

Our Special Price $12.50

HUDSON MORO SPRAY PUMP

The Hudson Moro Spray Pump handles all spray solutions. Its high pressure adapts it for use in small orchards, vineyards and truck gardens.

No. 126SA Moro, Price **$6.25**

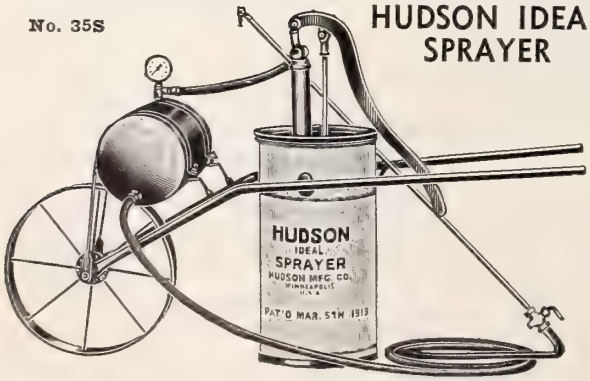
HUDSON MODOC SPRAY PUMP

Discharge Equipment. 3 feet of ⅜-inch spray hose, a 12-inch extension and fog nozzle.

Price **$3.35**

No. 35S

HUDSON IDEAL SPRAYER



Tank. Heavy copper-bearing galvanized, reinforced at top and bottom with channel iron hoops. Capacity 18 gallons.

Wheel. 18 inches diameter, 2½-inch tire; strong and rigid.

Discharge Equipment. 6 feet of ⅜-inch spray hose and a 4-foot ¼-inch pipe extension—total 10 feet, angle Ideal spray nozzle and leakless shut-off.

Shipping Weight. Crated securely, 75 pounds.

No. 34S. IDEAL, Galvanized Tank, price, each **$21.00**

No. 35S. IDEAL Sprayer with Pressure Tank **31.75**

THE LEVER KNAPSACK SPRAY PUMP

Fig. 547—No. 330

Galvanized tank holds 5 gallons, is fitted with lid and strainer. This Pump has lever, large air chamber, ball valves, solid plunger and agitator. Fitted with 5 feet ½ inch hose, pipe extension, and Bordeaux spray nozzle. Our Special price **$12.50**

No. 331 Copper Tank **$18.00**

HUDSON PERFECTION SPRAYER

It is very practical for use around the orchard, barn, or outhouse, on small truck farms; in onion, melon and small potato fields; for removing old wall paper, spraying stock dip, etc.

Tank. 7½ inches diameter, 20 inches high; capacity approximately 4 gallons. All seams are riveted and soldered.

Pump. Seamless brass tubing, 1¾ inches diameter, 15 inches long.

Nozzle. Is especially designed for high pressure work.

No. 110G. Perfection, Galvanized $6.25

No. 110B. Perfection, Brass Tank, Price $9.60

HUDSON ECONOMY SPRAYER

Tank. 7¼ inches diameter, 20 inches high; capacity approximately 3¾ gallons. Made of first quality galvanized sheet. Sturdily built, with convex ends secured by double folded top and bottom seams, riveted side seams and heavily sweat soldered throughout. Tested under actual working conditions to insure safety in operation.

Price, $5.00

HUDSON JR. SPRAYER

It is particularly adapted for the backyard garden or small truck farm, for use around the chicken house, in the dairy barn, hog pen, for disinfectants in the home or in hotels, restaurants, theatres and other public buildings.

Tank. 6½ inches diameter, 17 inches long; capacity about 2½ gallons.

Pump. 1¾ inches diameter, 15 inches long; seamless brass tubing.

Nozzle. Our "Perfection" automatic shut-off nozzle.

No. 140G Junior, galvanized tank, price **$4.95.**

No. 115G STERLING SPRAYER

The No. 115G Sterling meets the demand for a high pressure sprayer for the small home owner whose needs do not justify the cost of a larger capacity sprayer.

Tank. 6½ inches in diameter by 15 inches high. Capacity approximately 2 gallons.

Equipment. Hose ⅜ inches 5 ply. The nozzle is all brass, automatic in operation and will shut off under any pressure. Equipped with curved brass extension, price **$4.20.**

BROWN'S AUTO SPRAY No. 9

The Auto Spray No. 9 is an excellent compressed air sprayer for use in spraying small trees, gardens, field crops, chicken houses, etc. This Sprayer has the Brown drain-dry feature. This Sprayer, because of the cam lock device, is especially adapted for spraying gummy or heavy subsances, besides agricultural insecticides, disinfectants and light floor oils. Corrugated tank of heavy sheet copper or strong copper bearing galvanized steel sheet.

Auto Spray No. 9-C, Copper Tank, priced at **$10.00.**

Auto Spray No. 9-A, Galvanized Tank, priced at **$6.65.**

BLUE RIBBON SPRAYER

An excellent compressed air sprayer, made of heavy copper bearing galvanized steel. This sprayer has been greatly improved by the addition of an **aluminum,** hexagonal, threaded pump cap, Non-Clog screen nozzle and 2-inch diameter seamless brass pump with all brass valve.

Completely equipped with extra wide carrying strap, ⅜-inch 5 ply spray hose, automatic all metal shut off, seamless brass extension and Non-Clog nozzle.

It will handle all spraying solutions, and is an excellent general purpose sprayer.

3¾-gallon capacity **$5.25**

BLUE RIBBON JR.

2½-gallon capacity **$4.10**

CHALLENGER

A new inexpensive sprayer designed to meet the demand for a fine quality sprayer at low price. The tank is of best quality copper bearing galvanized steel, pump is of seamless brass with leak proof valve, has T-shaped malleable iron handle, and is completely equipped with wide web carrying strap, ⅜-inch 5 ply special spray hose, all-metal automatic shut off, seamless brass extension, and screen Non-Clog nozzle. Has **brass screw locking cap** for easy filling and emptying.

Will handle all spraying solutions, and may be used for all spraying purposes.

3½-gallon capacity **$4.50**

AUTO SPRAY No. 5

GENERAL PURPOSE HAND PUMP

It is made entirely of brass, doing away with all danger of corrosion.

The pump is double-acting. This feature makes the spray continuous. Anyone who has used a single-acting pump of this kind will immediately recognize the advantage in a pump that works on both the up and down stroke.

OUR SPECIAL PRICE, $3.85

GOULD'S POMONA SPRAY PUMP

Plunger—Diameter 2½ ins.; stroke adjustable to 3, 4, 5 ins.; discharge ½-in. hose. **Outside packed plungers. No. leather packings.**

For small orchards of a few acres; a good barrel sprayer that will meet every requirement. **All of the working parts are solid bronze.**

The pump has a steel air chamber, extending from top of pump to valve chamber, making it easy to get up sufficient pressure to continue spraying for some time after pumping has stopped. It is equipped with a long adjustable handle. The pump may be placed in any length barrel, as the barrel plate is adjustable. The agitator is simple, very very effective.

	List Price.	Our Special Price.
Fig. 1100.—Pump only with Agitator and Hose Coupling	$35.20	$22.00
Fig. 1100.—Outfit A.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle for one lead, but without Hose	37.52	23.45
Fig. 1100.—Outfit B.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle and 15-foot lead No. 1 Spray Hose	41.12	25.70
Fig. 1100.—Outfit C.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr. Nozzle, one 15-foot lead No. 1 Spray Hose, Fitted in Barrel	51.12	30.70
Fig. 1100.—Outfit D.—Pump with Agitator, Hose Bands and Couplings, one Mistry, Jr., Nozzle, one 15-ft. lead No. 1 Spray Hose, 8-foot Iron Extension Rod with Brass Stop-Cock, fitted in Barrel	53.76	32.35

GOULD'S "FRUITALL" SPRAY PUMP

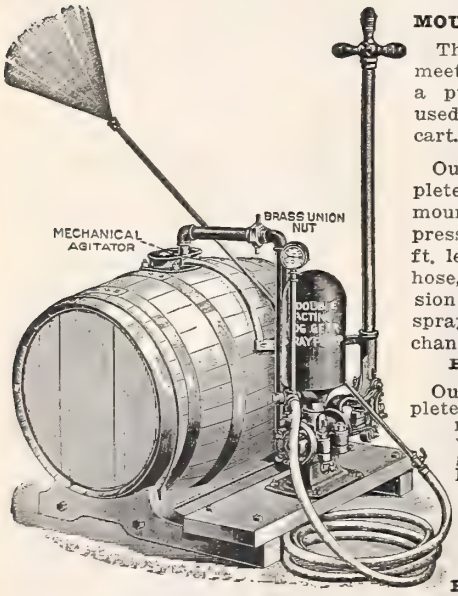
All Working Parts Bronze

The Fruitall Sprayer is first-class in every respect, while the simplicity of its design allows it to be sold at a very reasonable price. The sprayer is held in place in the barrel by an adjustable clamp at the top fitting over the end of a stave, and an anchor at the bottom of the barrel. The plunger is packed from the outside, so it is not necessary to take the entire pump apart to repack.

Plunger, 2 inches diameter; stroke, 4 inches.

	List Price	Our Special Price
Fig. 1188.—Pump only with Agitator and Hose couplings	$19.70	$12.25
Fig. 1188.—Outfit A.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle for one lead of hose, but without Hose	22.04	13.70
Fig. 1188.—Outfit B.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle and 15-foot lead No. 1 Spray Hose	25.62	15.95
Fig. 1188—Outfit C.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle, one 15-ft. lead No. 1 Spray Hose, fitted in barrel	35.62	20.95
Fig. 1188.—Outfit D.—Pump with Agitator, Hose Bands and Couplings and one Mistry, Jr. Nozzle, one 15-foot lead No. 1 Spray Hose, 8-foot Iron Extension Rod with Brass Stop-Cock, fitted in Barrel	38.20	22.60

DOUBLE-ACTING SPRAY PUMP



MOUNTED ON SKIDS

This desirable outfit meets the demand for a pump that can be used in a wagon or cart. It cannot upset.

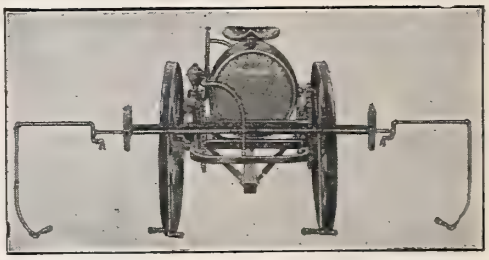
Outfit B—Pump, complete, 50-gallon barrel mounted on skids, with pressure gauge; one 15-ft. lead ½-in. discharge hose, 8-ft. pipe extension with lever shut-off, spray nozzle and mechanical agitator.

Price $54.00

Outfit C—Pump, complete, 50-gallon barrel mounted on skids, with pressure gauge; two 15-ft. leads of ½-in. discharge hose, 8-ft. pipe extension with lever shut-off, spray nozzles and mechanical agita-

Price $60.00

McKENZIE THREE AND FOUR ROW SPRAYERS



50 Gallon, 3 Row, 3 Nozzles to Row

This 110-Gallon High Pressure Sprayer, the latest addition to the popular McKenzie line, marks another step forward in sprayer construction. It embodies the improvements you want in your high pressure sprayer and is built to give years of satisfactory service.

The New McKenzie 100-Gallon High Pressure Sprayer is regularly equipped with wide evener and neckyoke, automatic pressure gauge and Nixon or No. 10 boom for spraying four rows with three nozzles per row, or No. 11 boom for six rows with two nozzles to the row. These booms are made of all galvanized iron pipe with ¾-inch and ½-inch main line with drop pipes of the same size. They can be adjusted to suit practically all crop conditions and are hinged for passing through narrow gates.

50 gallons, 3 rows, 3 nozzles to row	$125.00
100 gallons, 4 rows, 3 nozzles to row	200.00

THE MYERS SELF OILING JUNIOR POWER SPRAY OUTFIT

Fitted with 2¼x3 Double Acting Self-Oiling Pump

Fig. 2692

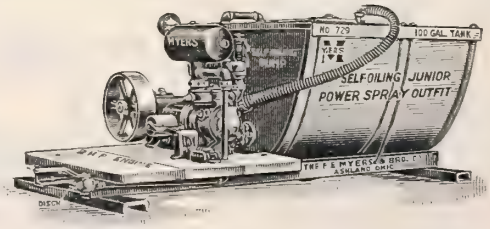


Fig. 2692 illustrates the Myers Junior Power, Spray Outfit as furnished complete except the engine. TANK, cypress, 100 gallons, fitted with rotary agitator. FRAME, 3-inch channel steel. Length overall, 6 feet 8 inches. DECK space for Engine 36x36 inches. PUMP, No. 699.

Equipped as follows: One Myers Spray Gun. 50 feet of ½-inch Myers High Pressure Spray Hose with fittings complete, cut-off for discharge lines, pressure gauge, agitator, belt tightener, relief valve, strainer and suction hose.

No. 729, Myers Junior Spray Outfit with 100 gallon Tank and No. 699 Spray Pump, belt driven, equipped as shown	$148.00
No. 739 with 2 h. p. Engine, chain drive	$236.50

MYERS OVERHEAD SPRAYER

For Potatoes, Cotton or other field crops. Nozzles adjustable to any required height and any width row.

No. 6 Myers Hand Overhead 4 Row Adjustable Sprayer, complete with all necessary Hose and Nozzles (Pump and Barrel not included).

Our Special Price $20.00

STIMUGERM
LEGUME INOCULATION

HIGH-BRED NITROGEN-GATHERING BACTERIA

MEANS BETTER CROPS, BETTER SOILS, LESS FERTILIZER EXPENSE

STIMUGERM—The "Always Fresh" Inoculant

What Stimugerm is: A pure culture of nitrogen-fixing bacteria of highest quality. **Stimugerm,** always fresh, always strong and virile.

A sensible insurance and a profitable investment. We believe in inoculation, we favor the pure jelly medium, and we believe in **Stimugerm.** We recommend that all legume seeds purchased from us be inoculated before planting.

(A different culture is required for each legume group, so when ordering be sure to state what crops you wish to inoculate.)

New Low Prices—For Small Seeds, Clovers, Alfalfa, etc.

SMALL SEED LEGUME VARIETIES
Alfalfa—Clovers—Sweet Clovers

½ bu. size retails at	**$0.35**
1 bu. size retails at	**.65**
2½ bu. size retails at	**1.40**

LARGE SEED LEGUME VARIETIES
Soybeans—Cowpeas—Vetch—Peas

1 bu. size retails at	**$0.35**
2 bu. size retails at	**.65**
5 bu. size retails at	**1.40**

Garden size for Garden Peas, Beans and Sweet Peas.
Special Composite Culture, **25c.**

PASTOXINE

The New Non-Poisonous Exterminator of Rats and Mice

It is a product of the "LABORATOIRE DES VACCINS PASTEUR, P. E.", Paris France. This Laboratory, devoted exclusively to scientific research, was founded over half a century ago, and is known all over the world.

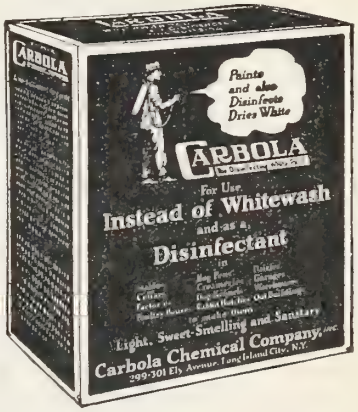
Tests have constantly proved that **PASTOXINE** causes in Rats and Mice external symptoms similar to Progressive Asphyxia, viz. paralysis of the respiratory organs. The Rodents, as soon as they start being sick, eagerly search for WATER, and even more especially, for AIR. This induces them to leave their holes, and they die in about six hours out in the open air, away from their cache. **Price, 60c.** (If by mail add 5c for postage.)

CARBOLA

CARBOLA is a white paint in powder form combined with a disinfectant many times stronger than pure carbolic acid. It is non-poisonous and non-caustic. It kills lice, mites, fly eggs, etc., and helps prevent the start and spread of contagious diseases that affect man, beast and fowl.

PRICES

5 pounds (2½ gals.)	**$0.75**
10 pounds (5 gals.)	**1.25**
50 pounds (25 gals.)	**5.00**



CYANOGAS—A Dust
REG. U.S. PAT. OFF.

CYANOGAS A-DUST is a powdered material that gives off hydrocyanic-acid gas when exposed to the air. This gas is deadly to the rodent and insect pests and will kill them almost immediately.

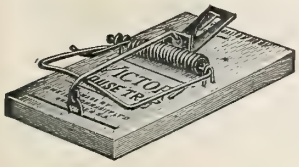
CYANOGAS A-DUST can be applied either with a duster or with a spoon.

The CYANOGAS method of controlling rodent and insect pests is easy, quick and thorough.

CYANOGAS A-DUST to kill Ants, Rats, Mice, Moles, Crayfish, Land Crabs, Land Turtles, Woodchucks or Ground Hogs, Prairie Dogs, Ground Squirrels, Pocket Gophers in Florida, Fleas, Bed Bugs, Clothes Moths, Wax Moths, Bats, Pigeons, Sparrows, Starlings, Yellowjackets, Wasps, Chinch Bugs on Lawns, Grape Leafhopper, Grape Mealy Bugs, Melon Aphis (Box Fumigators).

CYANOGAS A-DUST—25-lb. tins **$10.00,** 5-lb. tins **$3.00,** 1-lb. tins **75c,** ½-lb. tins **45c,** Hand Pump **$1.25,** Foot Pump **$5.00**

VICTOR

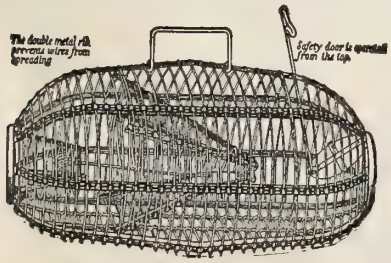


MICE AND RAT TRAPS

Made of hard wood blocks, bait hook designed to make catching sure every time. Long clinched staples that can't come out.

Price, Mice Traps, 3 for....**10c**
Postage extra 5c
Rat Traps, each.....**10c**
Postage extra 5c

THE WIRE CAGE RAT TRAP



The size of this trap makes it the ideal for house use.

It is strong and will stand rough use.

The patent door eliminates all danger from the caged rats. Size, 16 inches long, 9 inches wide, 7 inches high.

No. 17 coppered wire, nine sheet-steel flanged ribs.

Price **75c**

Dethol

SPRAY IN THE HOME AND ON THE FARM

IMPROVED DETHOL, sprayed lightly on tile, porcelain, wash basins and bath tubs, immediately loosens grime and grease, which can then be quickly and easily removed by wiping with rag, leaving a spotless and glistening surface. Also aids in disinfecting and deodorizing, and helps to purify foul-smelling air. Its cleansing spray penetrates where neither brush nor broom can reach.

On the farm, **IMPROVED DETHOL,** sprayed freely in hen houses, etc., and sprayed lightly and regularly on poultry and stock, keeps them free from many kinds of insects and vermin. Do not spray **IMPROVED DETHOL** on young animals, cats or vegetation.

½ pint **35c,** 1 pint **50c,** 1 quart **90c,** 1 gallon **$3.00**

SPRAY CALENDAR

WHAT TO SPRAY	FOR WHAT TO SPRAY	WITH WHAT TO SPRAY	First Spraying	Second Spraying	Third Spraying	REMARKS AND CAUTION
Apple	Codling Moth	Kaylox	As soon as blossoms fall	7 to 10 days later		Later spraying if made should be made with diluted solutions
	San Jose Scale	Lime-Sulphur Scalecide	Late in fall, late in winter or early in spring	Repeat when necessary		Use Lime-Sulphur only when trees are dormant
	Rosy Aphis	Black Leaf 40	When buds show pink			
	Green and Black Aphis	Black Leaf 40	When first appear			
	Scab	Kaylox	Just before blossoms open	Within a week after blossoms have dropped	Same 7 to 10 days later	The spray just before blossoms open is very essential for scab
	Woolly Aphis	Black Leaf 40	When trees are in full leaf	In fall		Don't use strong emulsion when trees are in full leaf
Asparagus	Asparagus rust	Kaylox	After cutting crop	10 days later	10 days later	Repeat 3 to 4 times. Burn rusted brush in the fall
Bean	Bean Beetle	Magnesium Arsenate				
	Anthracnose	Kaylox	On 2 or 3-inch plants	10 days later	After blossoms	
Cabbage and Cauliflower	Cabbage Worm	Kaylox	With first appearance of worms	Whenever worms are observed	Same	1 lb. to 13 gals. of water
Cherry	Rot	Kaylox	Before blossoming	After blossoming drop on fruit	Two weeks later on fruit	When fruit is large
	Curculio	Arsenate of lead	Before blossoming	As blossoms dry up	One week later	Avoid strong solutions. Do not use other arsenicals than arsenate of lead
Cucumber	Cucumber Beetle	Kaylox	Soon as plants appear	Week later	Week after second	Week after fourth
Currant	San Jose Scale	Lime-Sulphur	As with apple	In spring as with apple		
	Worm	Kaylox	When worms first appear	Repeat in 3 or 4 days	Repeat as second	Look for worms on under side of leaves first
Gooseberry	Mildew	Kaylox	Before blossoms open	After blossoming	Two weeks later	
	Worm	Kaylox	As on Currants			
Grape	Anthracnose	Kaylox	Just before buds open	Just before blossoming	Just after fruit has set	
	Downy and Powdery Mildew and Rot	Kaylox	Just before blossoming	Just after fruit has set	7 to 10 days later	Follow by two or three sprayings
Peach	Leaf Curl	Kaylox	In fall or spring	As buds are opening		
	Borer	Para Dichlorobenzine	May	September		
	Rot and Scab	Dritomic sulphur	As buds are swelling	Just after calyxes drop add arsenate of lead	2 to 3 weeks later	Destroy all mummies
	Bud Moth	Arsenate of Lead	With opening of buds			Use only half usual amount of poison
	San Jose Scale	Lime-Sulphur Scalecide	In late fall or early spring			
Pear	Scab	Kaylox	When leaves are half grown	After blossoms drop		
	Codling Moth	Kaylox	As with Apple	Same as first		See Apple
	San Jose Scale	Lime-Sulphur	In fall or early spring			
Plum	Rot	Kaylox	As buds are swelling	Dritomic Sulphur Just after calyx drops	3 to 4 weeks later as second spray	Repeat every 7 or 10 days as third spray
	Curculio	Kaylox	With starting of buds	Arsenate of Lead Just after calyx drops	5 days later	Destroy all mummies Gather and destroy curculios and stung plums
	San Jose Scale	Lime-Sulphur or scalecide	In late fall or early spring			
Potato	Early Blight	Kaylox	When plants are 6 inches high	Two weeks later	Two weeks later	
	Scab	Soak seed in Semesan Bel				
	Colorado Beetle	Kaylox	When beetles or young appear	As for first		Kaylox, 7 lbs. to 50 gals. of water
Quince	Fruit and Leaf Spot	Kaylox	Just before blossoms open	After blossoms drop	Two weeks later	
	San Jose Scale	Lime-Sulphur	In late fall or early spring			
Raspberry and Blackberry	Anthracnose	Kaylox	Before leaves open	Oncanes 6 inches high	Repeat second 1 week later	Keep spray from leaves on bearing canes
Rose	Leaf Spot	Kaylox	With first appearance of fungus	2 or 3 weeks later	Repeat if necessary	
	Mildew	Pomo Green	When leaves appear			
	Slug	Lemon Oil Co.'s Standard Insecticide	On appearance of slug	Repeat if necessary		
	Aphis					
Strawberry	Leaf Spot	Kaylox	On new growth after crop	2 or 3 weeks later		
Tomato	Blight	Kaylox	Soon after fruit begins to set	Three weeks later	Three weeks later	
Evergreens	Red Spider Rust	Volck		Early spring		
	Bag Worm	Arsenate of Lead		When necessary	Repeat if necessary	
House Plants	White Fly Scale	Lemon Oil Co.'s Standard Insecticide		When necessary	Repeat if necessary	

LEMON OIL COMPANY'S STANDARD

INSECTICIDE

THIS INSECTICIDE

is death to pests—is safe to plants—is harmless to user—is low in price—is free from disagreeable odor.

We recommend **Lemon Oil Co.'s Standard Insecticide.** It is used by the most prominent florists and seeds men to destroy **Scale, Mealy Bug, Rust, Aphis, Caterpillar, etc.,** on Palms, Rose Bushes, Rubber Plants, Ferns, etc. It leaves no disagreeable odor on blooms or foliage—advantages over the vile-smelling soaps and powders, especially for indoor use. Being poisonless, it is not dangerous to use.

This will be found an **excellent wash for dogs and other animals; it relieves mange, destroys lice and other insects,** and gives the coat a beautiful, glossy appearance. Contains no poison to injure the animal, and being liquid, gets through the hair to the hide.

It will destroy **lice and other insects in poultry houses.**

It will also kill **roaches, ants and other insects that infest houses.**

½ pint **30c,** 1 pint **50c,** 1 quart **85c,** ½ gallon **$1.50,** 1 gallon **$2.50,** 5 gallons **$10.00,** 10 gallons **$19.50.**

LIME SULPHUR SOLUTION

The universally accepted spray material for dormant use is lime-sulphur solution. Chemically made lime sulphur solution has now almost entirely supplanted the home-made solution because it is better.

This material combines the great fungicidal properties of sulphur with the scale remedy, and is especially recommended for peach and plum trees which need the combined treatment in the fall and spring. In spraying this material care should be exercised to avoid getting it in the eyes, and gloves should be worn to protect the hands.

Lime-Sulphur Solution is used both as an insecticide and a fungicide. As an insecticide it is used principally against scale insects, especially the San Jose Scale. For scale insects it is applied while the trees are dormant and is diluted with 8 or 9 parts of water. As a fungicide it is used chiefly for the control of apple scab, 1½ gallons to 50 gallons of water. Lime-Sulphur may be used in combination with arsenate of lead and tobacco extracts. Paris Green should not be used with Lime-Sulphur.

1-qt. Can	$0.30	30-gal. Drums, per gallon	.18
½-gal. Can	.50	Drums about 50 gal., per gal.	.16
1-gal. Can	.75		
5-gal. Can	2.50		
10-gal. Can	4.00	No charge for Drums.	

POISON KILL-WEED POISON

NOT TO BE USED ON LAWNS

A SCIENTIFIC WEED DESTROYER. FREE FROM ODOR. By Analysis It Has Been Found There is No Stronger Weed Killer on the Market.

An unsurpassed preparation for the removal of grass, weeds, vines and bushes from paths, roadways, gutters, streets and any other place from which it is desired to remove any and all vegetable growths, thus destroying the breeding ground for mosquitoes. The work can be done in a speedy, thorough, economical and easy manner. The material has no bad effect on the ground, neither does it injure or discolor the brick, stone or marble curbing.

No more digging and disfiguring of paths and roadways. Saves expense of several men. **KILL-WEED** not onlly kills weeds but destroys seed germs and roots of plants. Can be used with an ordinary sprinkling can. **One gallon KILL-WEED will make 30 gallons treating liquid when mixed with water.** One man with a sprinkling can in **one hour** can do as much or more than **six men** could do in **one-half day,** and do the work better.

1-Quart Can	$0.50	5-gal. Can	6.50
½-gal. Can	.90	10-gal. Can	12.00
1-gal. Can	1.50	1 Barrel, per gal.	.95

SCALECIDE

Pleasant to Use.
Reduces Sprayer Troubles.
Prolongs the Life of Your Sprayer.
Spreads into Cracks and Crevices.
Saves Half the Labor of Spraying

—One spray tankful of dilute Scalecide goes as far on your trees as two spray tankfuls of dilute lime-sulphur or two and one half spray tanks of diluted oil emulsion.

A 50-gal. barrel of Scalecide sprays the same trees, until they drip, as three and one-half barrels of lime-sulphur.

PRICES
A Size for Every Need

One gallon makes 16 gallons of spray.

1 qt. can	$0.60
1 gal. can	1.40
5 gal. can	4.90
10 gal. can	8.50
15 gal. drum	10.00
30 gal. drum	16.50
50 gal. drum	23.50

Plus Deposit on Drums

15 gal.	$2.00
30 gal.	2.50
50 gal.	3.00

DRY LIME SULFUR

Dry Lime Sulfur is the most valuable new spraying product that has been developed in recent years. For a long time Lime-Sulfur Solution had been the standard dormant and summer spray for apples, pears, plums and many other tree fruits. Orchardists are familiar with the disadvantages connected with the use of Lime-Sulfur Solution. These include heavy handlings of barrels, losses due to leakage, crystallization and freezing and freight on water.

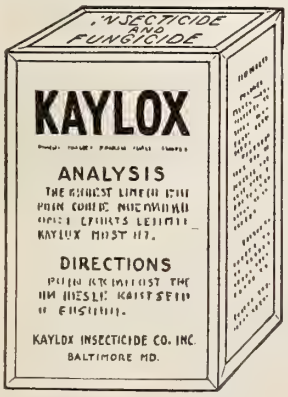
This Dry Lime-Sulfur is a true Dry Lime-Sulphur. It is not a substitute for Lime-Sulfur Solution, but is standard 33° Baume Lime-Sulfur Solution in dry powdered form. It dissolves readily in water and will control insects and diseases just as effectively as Lime-Sulfur Solution.

Dry Lime-Sulfur is an effective remedy for San Jose and Oyster-Shell Scale, Peach-Leaf Curl, Peach Blight, Peach Twig Borer, Blister-Mite, Apple and Pear Scab, Brown Rot of Apricot, Powdery Mildew of Apples, Red Spiders, Mites and Thrips of Citrus fruits.

	Pkg.
200-lb. steel drums	$22.00
100-lb. steel drums	12.00
50-lb. steel drums	7.00
25-lb. steel drums	4.00
10-lb. cans	2.00
5-lb. cans	1.25
1-lb. cans	.30

Trade KAYLOX Mark

Registered in U. S. Patent Office.



INSECTICIDE AND FUNGICIDE

Kills Insects and Prevents Blight

KAYLOX is adapted for spraying for late broods of Codling Moth on Apples, for Potato Beetles, most Caterpillars and many Leaf-eating Insects on fruit and other trees, Tomatoes, Grapes, Currants, Celery, Cabbage, Cauliflower and many other Plants.

A preventive of many Blights and certain Fungous diseases.

Used as a general spray—1 pound to 10 gallons or 5 pounds to 50 gallons of water.

For Potatoes, Bitter Rot and Blotch on Apples. Use 1 pound to 7½ gallons or 6½ or 7 pounds to 50 gallons of water.

Not to be used for late Spring or early Summer application on Apples, and not to be used on Peaches or Japanese Plums after blooming.

KAYLOX IS A POWDER, NOT A PASTE

HIGH FREIGHT RATES make it imperative that you buy **KAYLOX,** a highly concentrated spraying material, as you then do not have to pay freight on a preparation that is 50% water.

KAYLOX never spoils, **KAYLOX** never freezes, **KAYLOX** never becomes worthless, **KAYLOX** is always at your service, **KAYLOX** should be used, because it is your best insurance for a full crop.

KAYLOX is the outcome of many years of development in the use and manufacture of insecticides and fungicides. It meets the requirements of the largest growers as well as the small home gardener. **KAYLOX is in convenient size packages.**

½ Pound makes 5 gals. of spray	$0.25	25 Pounds make 250 gals. of spray	$7.75
1 Pound makes 10 gals. of spray	.45	50 Pounds make 500 gals. of spray	15.00
5 Pounds make 50 gals. of spray	2.10	100 Pounds make 1,000 gals. of spray	26.50
10 Pounds make 100 gals. of spray	3.75		

WRITE FOR SPECIAL CIRCULAR.

ARSENATE OF LEAD

Arsenate of Lead is an arsenical poison for use against insects that chew and for such insects as the fruit-flies that lap and suck up sweetened liquids.

The principal insects for which Arsenate of Lead is used are: Apple-maggot, brown-tail moth, bud-moth, cankerworm, codling moth, fruit-tree leaf roller, gypsy moth, tent caterpillar, pear slug, curculio, etc.

Directions: 1 to 1½ lbs. powder to 50 gallons of water. Powdered Form.

1-lb. pkg., per lb..... 25c
4-lb. pkg., per lb..... 20c
48-lb. pkg., per lb..... 15c

ARSENITE OF ZINC

Arsenite of Zinc.—This is a combination of arsenic with zinc to form a quick acting, adhesive insecticide for use on potatoes and some other truck crops. It is much more adhesive and less caustic than Paris Green and kills quicker than Arsenate of Lead.

1-lb. pkg., per lb.....**25c.** 4-lb. pkg., per lb.....**21c.**
48-lb. pkg., per lb.....**16c.**

CALCIUM ARSENATE

1-lb. pkg., per lb.....**15c.** 4-lb. pkg., per lb.....**11c.**
48-lb. pkg., per lb.....**10c.**

COPPERCARB

A new remedy for bunt or stinking smut in wheat. Being a powder which can be applied without any further mixing directly to the grain, makes it more economical than the old wet system, and as it can be done at any time, even months before sowing, does away with the evils of any soaking or wet process.

Raise clean wheat and save the loss in reduced prices when you sell your crop.

Use 2½ to 3 ounces to treat one bushel of wheat.

5-Pound Packages, per pound...**$0.15**

HAMMOND'S SLUG SHOT

Destroys potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to forty pounds is sufficient for an acre.

1-lb. pkg.....**25c**
5-lb. pkg.....**75c**

HAMMOND'S GRAPE AND ROSE DUST

5 lbs.....**$1.15**

"NICO-FUME TOBACCO POWDER

Tobacco Powder impregnated with a high-strength nicotine solution. Effective for fumigating in greenhouses to destroy Aphis, Thrips, etc.

Fill an ordinary 2½-inch flower pot heaping full of "Nico-Fume" Powder (this being equal to about three heaping tablespoonfuls).

Pour the "Nico-Fume" Powder out upon the bare ground or cement walk in a narrow pile about seven inches long.

1 Pound **$1.00**
5 Pounds **3.50**
10 Pounds **6.15**

F. O. B. Factory.

TOBACCO DUST

Price.....5 pounds, **25c**; 25 pounds, **$1.00**; 100 pounds, **$4.00.**

FORMALDEHYDE, 40% SOLUTION

1-Pt. Bottles, **50c.** 1-Qt. Bottles, **90c.** 1-Gal. Jug, **$2.50**

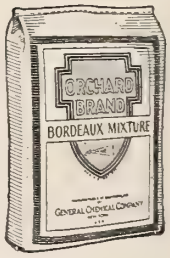
DRITOMIC SULPHUR

There has been a growing demand for fungicides in dry form. To meet this demand, the General Chemical Company has developed a highly concentrated sulphur product; a product that combines the advantages of Atomic Sulphur with the advantages particular to dry powdered materials. This new product will give the fruit the well-known sulphur finish, without interfering with the assimulatory functions of the foliage or the development of the plant treated.

PRICE

4-lb. Bags, per lb..... **18c**
48-lb. Bags, per lb..... **12c**
96-lb. Bags., per lb..... **11c**

BORDEAUX MIXTURE



is a combination of copper sulphate and lime. Its use is indispensable in the control of black rot of grapes and the blight of potatoes. It is also used for apple-scab, bitter-rot, cedar rust, leaf spot and downy mildew.

Directions: 6 to 7 pounds to 50 gallons of water.

1-lb. pkg., per lb..... **25c**
4-lb. pkg., per lb..... **20c**
48-lb. pkg., per lb..... **15c**

DOW MAGNESIUM ARSENATE

Dow Magnesium Arsenate gives best results when applied as a wet spray, using 2 pounds per 100 gallons of water. This gallonage is sufficient for about one acre of beans.

Should you be interested in a prepared product, ready for use in a duster, we recommend Dow Magnesium Arsenate Dust Mixture. This contains genuine Dow Magnesium Arsenate blended with hydrated lime in accordance with government recommendations.

2-lb. Packages ..... **$ .60**
100-lb. Drums **22.00**

MAGNESIUM ARSENATE DUST

PREPARED READY TO USE

4-lb. Packages ..... **$ .60**
100-lb. Drums **12.00**

ATLACIDE

A NON-POISONOUS WEED KILLER

Can be dissolved in water and applied as a spray, or can be dusted on the weed growth. Very effective on poison ivy.

1 lb. can, kills 100 to 450 sq. ft. weeds.....**$ .50**
3½ lb. can, kills 350 to 1,500 sq. ft. weeds.....**1.50**
15 lb. drum, kills 1,500 to 2,500 sq. ft. weeds.....**3.50**
50 lb. drum, kills 5,000 sq. ft. weeds, per pound.....**.14**
100 lb. drum, kills 10,000 sq. ft. weeds, per pound.....**.13½**
200 lb. drum, kills 20,000 sq. ft. weeds, per pound.....**.13**

"BLACK LEAF 40"

NICOTINE SULPHATE—40% NICOTINE

This is the insecticide that is so highly recommended by Experiment Stations. It destroys Aphis (plant lice), Thrips, Leaf-hoppers on all tree, bush and vine fruits, vegetables, field crops, flowers and shrubs; also Apple Red Bug, Pear Psylla and similar soft-bodied sucking insects—all without injury to foliage.

May be combined with other sprays. Highly concentrated. Soluble in water—easy to mix—does not clog nozzles.

You cannot go wrong by ordering "Black Leaf 40" for sucking insects.

PRICES

1 oz., **$ .35,** makes 6 gals. 5 oz., **$1.00,** makes 40 to 120 gals. 1 lb., **$2.25,** makes 80 to 240 gals. 2 lbs., **$3.25,** makes 160 to 480 gals. 5 lbs., **$5.85,** makes 400 to 1,200 gals. 10 lbs., **$9.85,** makes 800 to 2,400 gals.

NICO-FUME

Nico-Fume is a **Tobacco Paper** insecticide for fumigating greenhouses. Extensively used by prominent florists. **Very easy to apply.** Prices: 24 sheets, **$1.25;** 144 sheets, **$4.75,** and 288 sheets, **$8.25. Directions on each package.**

TOBACCO STEMS

50-pound bale.....**4c pound.**

PARA-DICHLOROBENZINE

FOR PEACH BORER CONTROL

Use one ounce to a tree 6 years old or older; in case of very large tree, 1½ ounces may be needed to form a satisfactory band. On trees four or five years old, use ½ to ¾ ounces to a tree. We do not recommend using it on younger trees. Do not use on apple trees.

Spring application in May—Fall application in September.

1-lb. package, per lb...$0.45 25-lb. package, per lb..$0.26
5-lb. package, per lb... .40 100-lb. package, per lb.. .22

CYANOGAS G FUMIGANT

REG. U.S. PAT. OFF.

FOR GREENHOUSES

One-eighth ounce to 1000 cubic feet is a sufficient dose if the house is fairly tight. Always start the fumigation about one hour after sundown—never before. Choose a still night. The house should not be watered for at least twenty-four hours before fumigation. Some plants will not stand the treatment and should be removed from the house.

Cyanogas G Fumigant (cannot be mailed):

5-pound pkgs.....$3.00 25-pound pkgs.....$10.00

Antrol ANTS DESTROYED

New method "gets" them at their source—Safe, Permanent, Effective

The complete system should cover every 15 feet around the outside of the house or "ant" trails in the garden. Once installed permament, effective and safe protection is insured from these annoying pests. **Prices:**

Antrol sets containing 4 containers and 1 4-oz. bottle of syrup.....$0.75
Antrol extra containers (each).....**.15**
Antrol syrup, 4-oz. bottles.....**.45**
Pints.....**.95**
Gallons.....**3.75**
Special Ready Filled Set, 4 containers.....**0.50**

BOURBON FLUOSILICATE DUST MIXTURE

Bourbon Remedy Company's **Fluosilicate Dust Mixture** contains a light, fine quality of sodium fluosilicate, carefully mixed with a suitable carrier so as to make a product adapted for dusting purposes, and ready for use without further preparation. Most of the ordinary commercial grades of sodium fluosilicate now available are not suitable for dusting.

Bourbon Remedy Company **Fluosilicate Dust Mixture** is adapted for the control of Mexican Bean Beetles, Potato Bugs (Beetles), Striped Cucumber Beetles, Blister Beetles, certain Flea Beetles, and Boll Weevils, and it may also be used to destroy Cutworms, to rid premises of Ants and Roaches, and to kill the Lice on fowls.

Price, 100-lb. Drums.....$15.00

POMODUST

Pomodust is a combination of highly effective fungicides and insecticides in combination for the prevention of many blights, mildews and fungus troubles and to kill external leaf eating insects. Pomodust is especially adapted to use on roses, and is used and recommended by many prominent growers.

Price—1-lb. pkg. **40c**—5-lb. pkg. **$1.25**—10-lb. pkg. **$2.00.**

POMO GREEN

1 lb.....**50c** 5 lbs.....**$1.75**

NURSERY VOLCK

Volck is one of the most powerful insecticides known. It is effective on practically all insects on ornamental and flowering plants. Wonderful results have been obtained against red spiders, cyclamen mite, aphis (green fly), scale, mealy bug, thrips, and caterpillars. Many pests that could not be controlled before are now killed with Volck. Even mildew and rusts are prevented and stopped by Volck. Not only does Volck give effective control of pests, but it also prevents reinfestation for a considerable period. Volck is odorless, colorless and non-poisonous. There is no unsightly residue. Plants are deep, glistening green after using Volck.

Prices, ½ pt. 35c; 1 pt. 55c; 1 qt. 80c; 1 gal. $2.50; 5 gals. $7.50; 14 gals. $17.50; 28 gals. $28.00.

KAYSO

Kayso is the combined casein spreader and adhesive which makes orchard and garden spraying more economical and more efficient. Kayso is now used by fruit and vegetable growers in all parts of the United States. Kayso enables you to get your trees completely covered by a protective film of poison, with no unprotected spaces.

Prices—2-lb. pkg. $0.32
100-lb. pkg.....16.00

PARIS GREEN

¼ pound $0.15
1 pound ..... .45
5 pounds 1.85

TREE TANGLEFOOT

For protecting trees against climbing insect pests in a simple, economical, and effective way. One pound will spread 8 feet long by 5 inches wide, 1-16 inch thick. Will stay on tree three months.

1-lb. can $0.50
5-lb. can 2.25
10-lb. can 4.25

KEY BRAND TREE WOUND PAINT

PREVENTS DECAY AFTER PRUNING

This residium, penetrating antiseptic paint is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding.

NOTE: Antiseptic paint for wounds and pruning purposes.

1-gal. cans **$3.00** 1-qt. cans **$1.20**

FISH OIL SOAP

1 lb. .....$0.30 10 lbs. $2.25
5 lbs. ..... 1.25 25 lbs. 3.25
100 lbs. $10.00

FLOUR OF SULPHUR

1 lb. .....$0.12 lb. 25 lbs. .....$0.08 lb.
5 lbs. ..... .10 lb. 50 lbs. ..... .07 lb.
10 lbs. ..... .09 lb. 100 lbs. ..... .06 lb.

COMMERCIAL FLOUR OF SULPHUR
Sold in 100-lb. bags only. Per 100 lbs., **$3.25.**

DUSTING SULPHUR

85-15 Dust. Contains 15 per cent Dry Arsenate of Lead and 85 per cent Flour Sulphur. A very effective dusting material for Strawberries, Cantaloupe, and other Melons, and in fact is an ideal dust for many uses.

100-pound Bags, per bag.....$7.00

SULFOCIDE

A Better Summer Spray

A concentrated liquid sulfur fungicide. Used on both peaches and apples and on all kinds of fruits, vegetables, and flowers. Controls apple scab, brown rot of peaches, plums and cherries; blight and rot of potatoes, tomatoes and melons; mildew and rust of flowers and shrubs. Convenient, economical, effective. Dilute 1 to 200.

Prices: 1 pt. 50c; 1 qt. 85c; 1 gal. $2.25; 5 gals. $7.50; 10 gals. $13.50; 30 gals. $33.00; 50 gals. $50.00.

BLUESTONE (OR COPPER SULPHATE)

5 lbs. .....$0.50 50 lbs. $4.25
10 lbs. ..... .90 100 lbs. 6.00

Snarol

The National Pest Control

Science provides new safe methods that does the work without fuss. Cutworms, sowbugs, grasshoppers, slugs, snails, earwigs, etc., are exterminated.

Prices: 1-lb. pkg. 45c; 3-lb. pkg. 95c; 15-lb. pkg. $3.50; 50-lb. bags $9.50.

SEMESAN

FOR FLOWER AND VEGETABLE SEEDS

Semesan is indispensable to those growing vegetables or flowers whether for market or home use. It may be applied in dust or liquid form to the seed before planting. It is harmless to the seed but deadly to any disease organisms that may be on the seed. One ounce treats 15 lbs. of seed. Effective in controlling damping off, the Brown Patch disease which affects golf greens and such devastating gladiolus diseases as hard rot and scab.

2 oz. tin ..... $ .50 5 lb. tin 11.75
1 lb. tin ..... 2.50 25 lb. pail 46.25
100 lb. drum $220.00

SEMESAN, JR.

FOR SEED CORN

Applied by the simple dusting operation at the rate of 2 oz. to each bushel of seed corn, Semesan, Jr., offers the cheapest and most effective form of disease insurance.

It is especially effective in controlling seed-borne infections of diplodia, Gibberella and Basisporium, without harming the seed embryo in the least.

Its use protects the seed from rotting in ground and makes possible earlier planting.

4 oz. tin ..... $ .50 5 lb. tin $7.00
1 lb. tin ..... 1.50 25 lb. pail 31.25

RED ARROW INSECT SPRAY

VARIOUS USES

Red Arrow kills: Aphids, (Plant Lice), Mealy Bugs, Squash Bugs, Rose Chafers, Leaf Hoppers, Aster Beetles, Elm Leaf Beetles, Mexican Bean Beetles, Japanese Beetles, Striped Cucumber Beetles, 12 Spot Cucumber Beetles, 12 Spot Dahlia Beetles, White Flies, Stable Flies, Potato Beetles, Red Spiders, Fern Caterpillars, Cut Worms, Cabbage Loopers, Harlequin Cabbage Bugs, Fall Web Worms, Thrips, Celery Leaf Tier, and many other insects.

1 oz., **35c**; ¼ pt., **$1.00**; ½ pt., **$1.75**; 1 pt., **$3.25**; 1 qt., **$6.00**; ½ gal., **$11.00**; 1 gal., **$17.50**.

NEW EVER GREEN SPRAY

. . . New Ever Green Spray greatly **simplifies** insect control for home gardeners. It does away with complicated and confusing instructions. Provides you with **one** product that will take care of 95 per cent of the insect troubles in home gardens. It is the most important advance in insecticide manufacturing since the discovery of pyrethrum as a toxic agent.

1 oz. bottles ..... $ .35
6 oz. bottles 1.00
16 oz. bottles 2.00
1 gallon cans 12.00

ARROW CARBOLINEUM

Formerly **Avenarius Carbolineum**—Made in U.S.A.

PRESERVES WOOD EVERYWHERE

against rot and decay, adding at least 100 per cent to the life of fence posts, poles, sills, floors, bridge timbers, porches and to wood embedded in concrete.

COVERING CAPACITY

350 square feet per gallon on dressed timber.
250 square feet per gallon on rough lumber.
100 square feet per gallon on shingles.

Second coat only requires one-third or one-fourth the quantity for first coat.

KILLS MITES IN POULTRY HOUSES

1-gallon can ..... $1.75 5-gallon can $7.00

DR. HESS FLY CHASER

Drives flies away. One application lasts six hours. Prevents milk slump. Keeps cattle and horses contented during the fly season. Most humane idea of the age. Its use during summer months will insure good profits.

GUARANTEED. 1 gal. **$1.50**, 5 gals. **$7.00**.

SEMESAN BEL

FOR SEED POTATOES

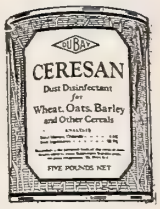
Use the quick, easy, time-saving Semesan Bel treatment. Simply mix, dip, drain, dry and the potatoes are ready for planting.

Controls such seed-borne disease organisms as scab, rhizoctonia and black-leg.

By controlling these diseases, germination is generally increased, stand improved and the resultant crop of potatoes is bigger and of better quality. Crop increases of from 10 to 15% are common.

One pound treats 16 to 20 bushels of seed.

4 oz. tin ..... $ .50 5 lb. tin 8.00
1 lb. tin ..... 1.75 25 lb. pail 31.25



CERESAN

FOR SMALL GRAINS

For the seed treatment of wheat, oats, barley, rye and sorghum. For controlling such seed-borne diseases as bunt or stinking smut of wheat; stripe disease of barley; loose and covered smuts of barley and oats and covered kernel smut of sorghum.

This is the only dust treatment which has successfully controlled all of these grain diseases.

1 lb. tin ..... 75c 5 lb. tin $3.00
25 lb. pail ..... $12.50.

NEW IMPROVED CERESAN

A NEW LOW COST GRAIN DISINFECTANT

Costs only 1⅞ to 2⅓ cents per bushel. Unusually effective in controlling bunt or stinking smut of wheat, covered smut and stripe of barley and oat smuts. Frequently improves the stand and yield of grain 1 to 5 bushels per acre. Easily and quickly applied by 20 revolutions of seed treater or 3 turnings with a shovel. Seed should be treated 24 hours before planting. Does not reduce drilling rate nor damage drill. One pound treats 32 bushels of wheat, oats, or barley.

Prices: 1 lb. tin, **75c**; 5 lb. tin, **$3.00**.

B-K Bacili-Kil

Trade-Mark

DISINFECTANT DEODORANT ANTISEPTIC

B-K is a powerful non-poisonous germicide with ten times the germ-destroying power of undiluted carbolic acid, yet contains no poison, acid, nor oil. It is fed in drinking water to calves, little pigs and poultry.

It is a powerful solvent of all protein matter such as casein milk solids on utensils, dead tissue, pus and mucus in animal tissue. It penetrates and dissolves these; destroys chemically the germs that cause the trouble, cleans sufaces of utensils; cleans and heals tissues of animals. It is ideal for colds, roup, flu, etc., in birds, and similar diseases acquired through mouths, throats and noses of animals.

It is a powerful deodorant. It destroys odors and leaves none of its own.

10-oz. Bottle ..... $0.50 1-gal. Bottle $2.00
1-qt. Bottle ..... .90 5-gal. Carboy 8.50

B K POWDER

Small Size $0.75
Large Size 1.50

COW-EASE

RELIEVES CATTLE AND HORSES FROM FLIES

A liquid preparation carefully compounded from effective materials. It is of the right consistency for applying with a sprayer, and it will not gum the hair or blister the skin.

A SURE PREVENTATIVE FOR LICE, TICKS AND VERMIN

A light application of **Cow-Ease** will relieve cattle from lice, also prevent tick—the cause of Texas Fever.

¼ gal., **60c**; ½ gal., **90c**; 1 gal., **$1.50**; 5 gal., **$7.25**.

GRADE 1 CREOSOTE OIL

It is liquid. It is free from water.
It has low evaporation loss. It has high specific gravity.
It has low viscosity, and, being liquid, penetrates readily and deeply into the wood.
It has increased antiseptic and decay-preventing qualities.
It is a clean oil and imparts a pleasing, dark-brown color to the wood.
It is uniform, standardized material.

1-Gallon Can ..... $1.00. 5-Gallon Can ..... $4.50.

WORLD'S GREATEST SEPARATOR
And We Will Prove It

Forty-six years of experience have gone into the making of this new, latest model Sharples. It is the greatest Sharples ever produced; and that means a cream separator second to none in the world. Every improvement, every advantage which the separator industry has produced in the last 50 years is included in this wonderful new Sharples. And because of its exclusive, patented features, the new Sharples has important advantages which are shared by no other separator on the market. When we say that the new Sharples is our masterpiece—the greatest of cream separators—we back our claim with our reputation built up through 46 years of service to the American farmer. And we say further that **the Sharples is today the greatest separator value ever offered.** A standard separator, made in America by an old established, reputable firm; the greatest model in 46 years now sold at a big saving in price.

Motor Equipment, $40.00.

The Sharples is made in a size to suit the requirements of every farmer. Choose a size that is **large enough** to do your job quickly and with the least work. You'll find it will pay you. The capacities listed below are based on 60 revolutions per minute. Through the exclusive Sharples combined Jet and Suction feed these capacities may be increased as much as 20% by turning faster.

No. 3—350 lbs. per hour.....**$65.00**
No. 4—450 lbs. per hour.....**75.00**
No. 6—650 lbs. per hour.....**85.00**

"SNOW BALL" FREEZER

Has three motions. The can revolves from right to left, the outer beater from left to right, the two wood scrapers removing the frozen cream from the sides with the unfrozen cream in the center, and throws all back to the side to be again frozen and removed by the scrapers. The continuous action of the can and two beaters moving in opposite directions keep the cream ever changing position, producing in about three minutes a very smooth, well-beaten, velvety cream. Virginia white cedar, bound with electric welded wire hoops. Fitted with new cross bar lock and reinforced cross bar.

Sizes	2-qt.	3-qt.	4-qt.	6-qt	8-qt.
Retail Prices	**$3.30**	**$4.00**	**$4.85**	**$5.95**	**$7.95**

THE "FROST KING" STEEL FRAME SINGLE MOTION FREEZER

Is a single-motion freezer, and is accordingly sold at a lower price than our other makes. It is, however, of exactly the same high-grade construction. The mechanism is very easy to operate, and the can being of the narrow model type makes the freezing very rapid. The operation of this freezer is extremely simple. The wood scrapers on the dasher press automatically against the sides of the revolving can. These remove the frozen cream and throw it to the centre where the spoons on the beater mix it with the cream still unfrozen and return the whole to the sides to be refrozen. The "Frost King" Steel Frame freezer will produce a rich and evenly frozen ice-cream in about three minutes.

Sizes	2-qt.	3-qt.	4-qt.	6-qt	8-qt.
Retail Prices	**$3.10**	**$3.50**	**$4.40**	**$5.50**	**$7.30**

THE BOSS SEPARATOR

VENTILATING AND AERATING CREAM SEPARATOR

In the **Boss** Dilutors or Water Mixers the milk and water is mixed together or, in other words, the water is poured right into the milk so as to chill it instantly and cause the cream to raise in about one hour.

In ordering a separator of this kind, be sure and order one that will hold twice the amount of milk that you wish to put into it, so as to make allowance for water.

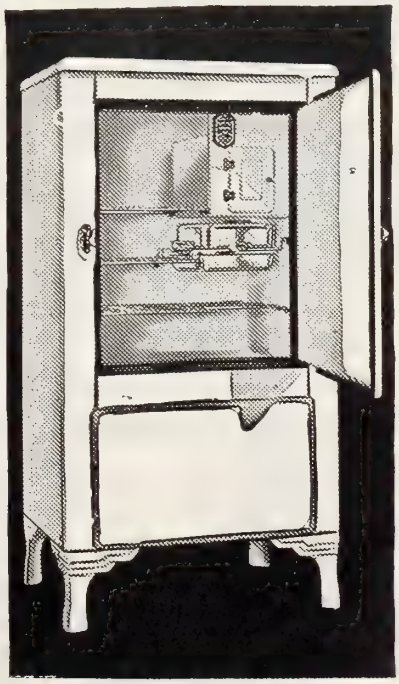
No.—Sizes	Prices
6— 8 gal., holds 4 gals. milk..	**$4.80**
7—12 gal., holds 6 gals. milk..	**5.60**
8—16 gal., holds 8 gals. milk..	**6.40**
9—20 gal., holds 10 gals. milk..	**7.20**
10—24 gal., holds 12 gals. milk..	**8.00**

THE BOSS CREAM SEPARATOR

The Boss Cream Separator consists of a water vessel containing one or more milk vessels fastened together with our Patent Can Attachment.

	Height	Width	Weight	
No. 1— 2½ gal. milk vessel	18 in.	13 in.	14 lb.	**$ 7.20**
No. 2— 4 gal. milk vessel	20 in.	15 in.	17 lb.	**8.00**
No. 3— 6 gal. milk vessel	22 in.	17 in.	20 lb.	**8.80**
No. 4— 8 gal. milk vessel	24 in.	18 in.	22 lb.	**9.60**
No. 5—10 gal. milk vessel	28 in.	18 in.	24 lb.	**10.80**

NORGE ELECTRIC REFRIGERATOR WITH ROLLATOR



Every electric refrigerator has a mechanism for compressing the fluid which later expands in the freezing unit where it absorbes heat and makes cold.

In the Norge compressor, the Rollator has been achieved, the mechanism which has long been the ideal of refrigeration engineers. It is simple with but three moving parts in a permanent bath of protective oil.

SEE THE NORGE BEFORE YOU BUY

Write for Special Catalog

PRICES—Net Cash or Convenient Terms

FLOATING GLASS DAIRY THERMOMETERS

Price, **60c** each.

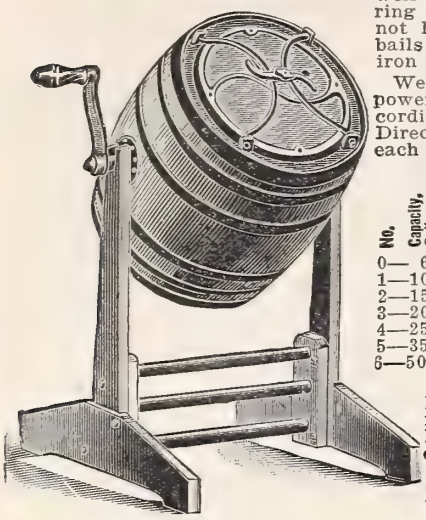
WELL'S & RICHARDSON CO.'S BUTTER COLORING

Put up in four sizes.

Small size to color 500 lbs.....**$ .35**
Medium size to color 1,250 lbs.....**.65**
Large size to color 2,800 lbs.....**1.00**
Gallon cans.....**5.00**

35c. and **65c.** size by mail add **15c.** for postage and packing.

Baltimore Favorite Churn



It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong and not liable to break. The bails are fastened to the iron ring.

We furnish pulleys for power. Prices extra, according to size desired. Directions for using in each Churn.

No.	Capacity, Gallons	To Churn, Gallons	List Price	Retail Price
0—	6	3	$13.76	$8.50
1—	10	5	15.58	8.95
2—	15	7	17.10	10.45
3—	20	10	19.06	11.65
4—	25	12	24.26	14.85
5—	35	17	27.50	16.80
6—	50	25	54.00	33.00

12-inch Single Pulleys with Trunnions for above. List, **$7.00.** Retail, **$4.25.** Pulley only. List Price, **$4.00.** Retail, **$2.50.** Trunnion only. List, **$3.00.** Retail, **$1.75.**

Cotton Pads for Sanitary Milk Strainers

These pads are cut round to fit in the strainer and are a necessity in producing clean milk.

They fit the Sanitary Strainer, as listed on page 66.

300 in carton, 6-inch.....**$1.00.** 6½-inch.....**$1.20**

PERFECTION ANTI-COW KICKER

No Chain or Cutting-Edge Parts to Lacerate, Bruise or Blemish the Cow's Leg.

The grapple or hook parts are made from a special size round steel, so shaped and arranged to prevent torturing or injuring the animal's leg.

Price **$1.25**

PERFECTION COW TAIL HOLDER

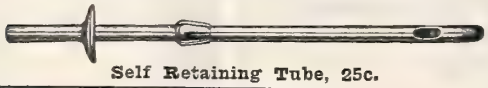
Will not annoy or excite the cow. Put on in a few seconds and taken off in less. Impossible for animal to switch when tail is placed between the springs.

Price ..... **.35**

ASEPTIC MILKING TUBES

FOR COWS WITH SORE TEATS.

Insert one in the teat and the milk will flow.



Self Retaining Tube, 25c.

RICE'S CALF WEANERS

ALSO PREVENTS COWS FROM SUCKING THEMSELVES.

No. 1—For Calves. **Retail Price**.....$ .50

No. 2—For Heifers. **Retail Price**..... .75

No. 3—For Cows. **Retail Price**..... 1.00

SHAW'S CALF WEANERS

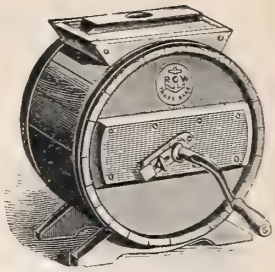
The **SHAW'S CALF WEANER** is thoroughly practical. The action is entirely in the basket, it being hinged to the end of the nose piece. The basket is made of heavy galvanized wire, with extra bars running through. The halter that goes over the neck is made of solid leather, and can be adjusted to suit the calf's head.

Prices: No. 1, 50c. No. 2, 65c. No. 3, 80c.

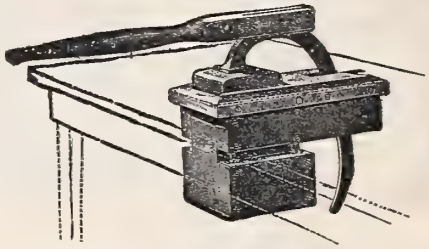
CEDAR CYLINDER CHURN

There are a number of Cylinder Churns on the market sold at a lower price, but they are made of pine or other inferior wood, while these are all of selected cedar, free of knots.

No. 1— 2¾ gallons.....**$4.00**
No. 2— 4 gallons..... **4.75**
No. 3— 7 gallons..... **5.50**
No. 4—10½ gallons..... **6.25**



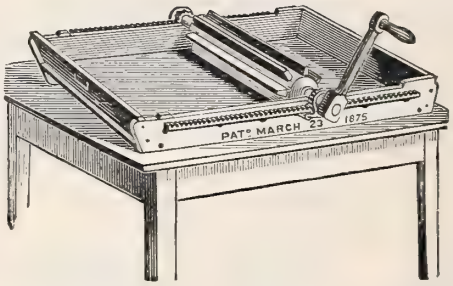
LAFAYETTE BUTTER PRINTER



This is also self-gauging. Intended for use in creameries, but more especially for reprinting. Very simple and handy.

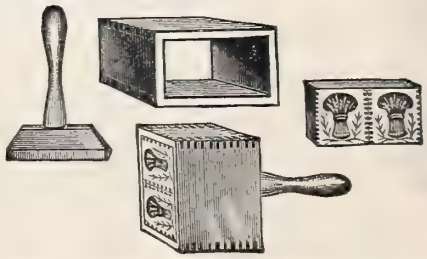
Either pound or half pound, with table, **$33.00.**

Either pound or half pound, without table, **$15.50.** Extra for initial or monogram, **$1.50**



REID'S BUTTER WORKER

No.	Inside Measurement	Capacity, Pounds.	Weight, Pounds.	Retail Price.
4—	14x24x2½ in.	10	20	$12.00
3—	17x27x2½ in.	20	25	14.00
2—	20x36x2½ in.	30	29	16.50
1—	23x36x2½ in.	50	45	19.00

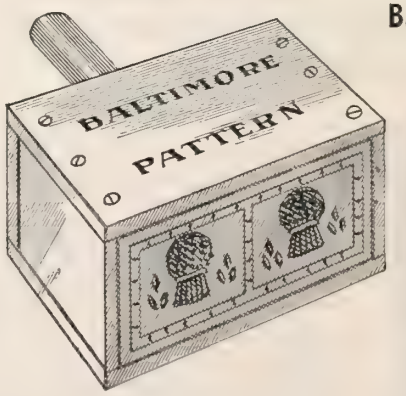


BUTTER MOULD

SEELEY PATTERN

Furnished with Sheaf of Wheat. Movable block.

½ pound.....65c.
1 pound.....85c.



Baltimore Pattern Hand-Made Butter Mould

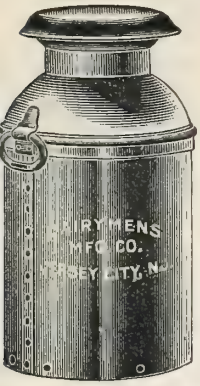
This Butter Print is hand-made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use. **½ lb Sheaf of Wheat Print, $1.25; 1 lb. Sheaf of Wheat Print, $1.50. ½ lb. Special Print, Carved with Initial, $2.50; 1 lb. Special Print, Carved with Initial, $2.75.**

PHILADELPHIA PATTERN MOULD

Philadelphia Pattern, ½ pound.....**$2.00**
Philadelphia Pattern, 1 pound..... **2.00**

LADLES AND SPADES

4x12 Butter Spade.....**15c.** No. 1 Butter Ladle.....**25c.**



MARYLAND PATTERN MILK CANS

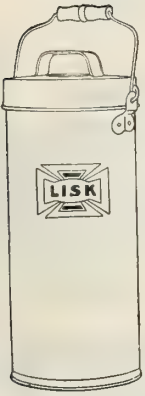
Furnished with our new Umbrella Cover, with seamless rim welded to top. The malleable iron handle on the Cans we stock are stationary, making the Can Handier to handle and Noiseless in shipping.

20-quart $3.50
40-quart 5.00

MILK CANS OR KETTLES

Finest charcoal plate. Seamless cover and neck. Bottom reinforced with steel band. Heavy steel bail. Sanitary soldered. Full capacity.

2-quart $1.15
4-quart 1.25
6-quart 1.40
8-quart 1.60
10-quart 1.80
12-quart 2.00
16-quart 2.35
20-quart 2.55



CREAM PAILS

These pails are made from 5A Charcoal plate, Mirror Finish, are very strong and durable.

We furnish them in two sizes, with or without Gauge or Faucets and with outside lids.

14-Quart Without Gauge and Faucet $0.90
20-Quart Without Gauge and Faucet $1.05
20-Qquart With Gauge and Faucet $2.75

DOUBLE BOTTOM CEMENT PAIL

Heavy reinforced Galvanized Cement Pail $1.10

WOODEN STABLE BUCKET

J. I. C. Cedar—Heavy ironbound stable bucket. Each $1.50

WELL BUCKETS

Crown, $1.00

Well Bucket Pulleys

10 in. $0.90
12 in. 1.00

SANITARY FISH MOUTH DAIRY PAIL

Approved and recommended by State Dairy Inspectors. Used exclusively by many large and practical Dairymen. Made from finest charcoal plate. One piece retinned top or hood. Steel Bail. Reinforced Ears. All seams sanitary soldered inside and out.

PLATE IXX. HEAVY CHARCOAL

12-quart $1.40
14-quart 1.45
14-quart Seamless Hood Pail 3.50

DAIRY STRAINER PAIL

Coppered Bail. Natural finish Bail wood. Reinforced ears. Handle near bottom to use when pouring from pail.

IXX. CHARCOAL PLATE

14-quart $1.50

MILK PAILS

These pails are extra heavy block tin, heavy steel bail, coppered. Reinforced ears with two rivets. Should not be confused with cheap tin pails.

12-quart Sanitary Soldered Pails 85c
14-quart Sanitary Soldered Pails 90c.

14-quart Seamless Open Pail $2.70

EXTRA HEAVY IXX. BLOCK TIN

12-quart ..... $0.70 14-quart $0.75

HEAVY PAILS

12-quart ..... $0.45 14-quart $0.50

EXTRA HEAVY GALVANIZED PAILS

Made from extra heavy sheets, heavy steel bail, strong ears, are hot dipped galvanized after making, practically indestructible.

12-quart $0.55
14-quart ..... .65
16-quart 1.10

Heavy Galvanized Pails

12-quart $0.45
14-quart ..... .50

MILK STRAINERS

NEW SANITARY

Milk strainer is made from heavy steel pressed in one piece, has heavy removable perforated steel well tinned discs, between which you use the Sanitary cotton filter pads. This is the heaviest and best sanitary strainer made; 12 quarts. Price $1.40

REGULAR STRAINERS

These milk strainers are made of extra heavy tin and brass wire cloth. They are warranted not to rust.

Prices:

4-qt. ..... $0.95 6-qt. ..... $1.05 10-qt. $1.50

MILK CAN BRUSHES

Made of an excellent grade of durable fibre, very full, with solid backs. Unquestionably the best and most serviceable Milk Can Brushes on the market.

No. 416—Stiff Palmetto, brush part 4x5 inches, each 40c

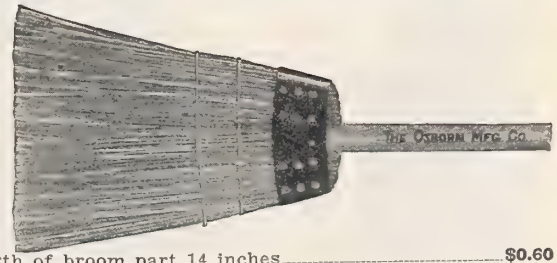
No. 08—Stiff Palmetto Fibre, length on face 9 inches, width on face 5 inches. Each 50c

STABLE OR PUSH BROOMS

These brooms are of the highest quality. Made with heavy blocks. **No. 2860**—Genuine African Bass, 4 rows 90c

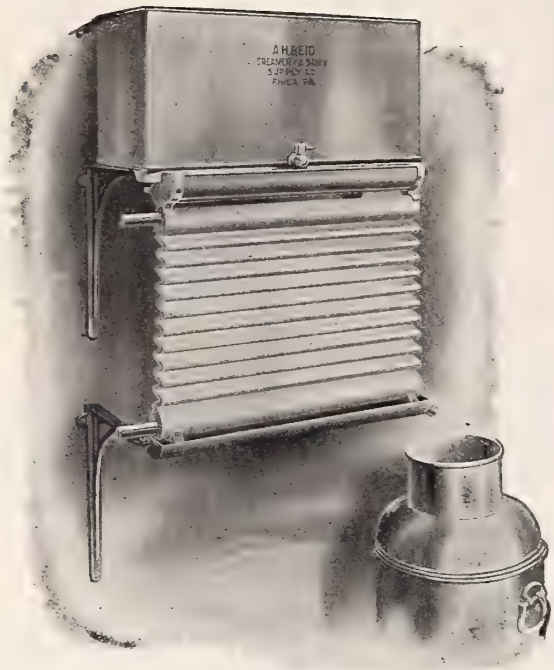
Factory, Warehouse and Railroad Brooms

These brooms are made with heavy steel bands or heads, securely nailed together. By this method of construction it is impossible for the brooms to work loose on the handles. They will last longer and give better service than the ordinary corn broom.



No. 223—Japanese Fibre, length of broom part 14 inches $0.60
No. 221—Japanese Fibre, length of broom part 16 inches ..... .75
No. 200—All-Corn Heavy Warehouse Broom ..... .75
No. 211—Corn and Bamboo Broom ..... .80

REID CORRUGATED MILK COOLER



The Reid Corrugated Cooler is made of non-rusting or corroding material. The corrugations or cooling surface are of heavy tinned copper. The heads are made of castings of solid manganese bronze, which is the strongest tin and copper alloy made. The sheets are sweated to the heads and the inlet and outlet are made of seamless tinned brass tubing. The top and bottom troughs are made of tinned copper. The ends are of tinned brass. There is absolutely nothing about the body of the cooler to rust or wear out.

The standard reservoir is made of tinned steel with a sanitary removable plug faucet.

	Cooling capacity in gals. per hr.	Width of body	Capacity of reservoir	Price
No. 1.....	45	12 in.	5½ gals.	$31.50
No. 2.....	55	15 in.	8 gals.	35.00
No. 3.....	65	18 in.	9 gals.	38.00
No. 4.....	80	21 in.	11 gals.	43.00

REID TUBULAR MILK COOLER FOR FARM USE

(The Pressure Type as Distinguished from the Gravity Type)

Reid Tubular Cooler consists of 17 1-inch tinned copper tubes, tinned brass manifolds, copper troughs and reservoir, double or single waterway, brackets, nipples, brush and tilting spout are standard equipment.

Length of Cooler Tubes	Cooling Capacity in Gallons per hour	Total Width	Total Height	Capacity of Reservoir	Price
18 in.	48	24 in.	39	8 gals.	$57.00
24 in.	64	30 in.	39	10 gals.	63.00
30 in.	80	36 in.	39	12 gals.	69.00
36 in.	96	42 in.	39	14 gals.	75.00

MILK BOTTLE BASKET

These baskets are made from the best grade of flat and round steel wire. The welded joints make them the same as one piece, hence all strain and shocks are distributed over the entire body.

6 bottles.....$1.75 8 bottles.....$2.00

HOUSEHOLD LUBRICANT OIL

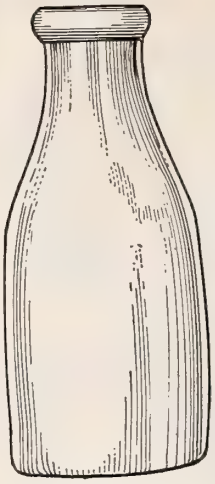
This very fine oil is put up in small oil cans, ¼-pint sizes, very convenient to use. It is especially adapted for use on sewing machines, lawn mowers, hinges and locks.

¼-pint cans 20c

G. & T. CO.'S PERFECTION SEPARATOR OIL

This oil is put up expressly for the use of separators, and we recommend it to users of all hand machines, it being a light oil and having a very low cold test.

1-quart can .....$0.40 1-gallon can $1.25
½-gallon can ..... .75 5-gallon can 5.00

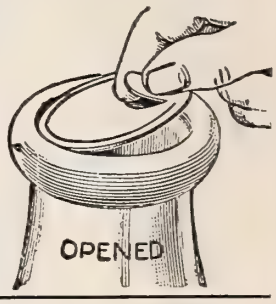


MILK BOTTLES

These bottles are made by a factory devoted especially to bottle making. The glass is clear flint. This makes a bottle that the milk shows up to the best advantage. They are made to stand the rough usage of the street delivery and collection on routes, and washing and sterilizing in the dairy house. These bottles are made with a long neck, and will show a deep cream line.

	Quart	Pint	½ Pint
One dozen	$1.00	$0.75	$0.60
One gross	9.75	7.25	5.85

MILK BOTTLE CAPS



The great convenience of this cap will be appreciated, as it is made with a lift to take the cap out. This prevents spilling the milk, or having to use anything to pry it out.

These caps are made from 40-point thick board, and are thoroughly waterproofed with paraffine.

One thousand $0.65
Five thousand 3.00

PELOUZE DAIRY SCALE

Graduated by Tenths of a Pound.
GUARANTEED ACCURATE

Made to comply with Departments of Weights and Measures. Large Circular Brass Dial, with distinct, black figures and graduations.

No. D 40—Capacity, 40 lbs.....$4.75
No. D 60—Capacity, 60 lbs..... 5.00

DOMINION DAIRY AND HOUSEHOLD CLEANSER

An improved cleanser and purifier for all dairy and household purposes. Just the thing for Churns, Pails and anything used in dairies. For household use, laundry work, all kitchen use, house-cleaning, public buildings, hotels and factories.

Dissolves with greatest ease in either hot or cold water, and rinses off perfectly clean without leaving a soapy scum. **Price:** 5-lb. bag, **35c.**; 25-lb. bag, **$1.50**

PARCHMENT BUTTER PAPER

It can be used in all cases where wax paper, tin foil or muslin has been adopted, and in many cases where these cannot, for preserving goods from the effects of moisture, etc. In sheets 24x36, or can furnish the paper cut in the following sizes without extra charge: 6x9 for half pounds, 9x12 for one pound, and 10x15 for two pounds. Price, **25c per pound.** By mail **35c.**

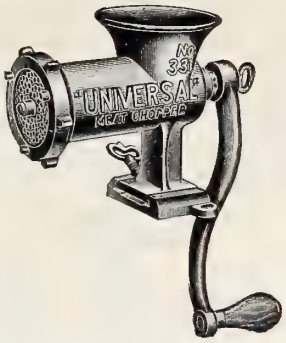
MICA AXLE GREASE

This is the highest quality of Axle Grease and contains ground mica, which forms a coating on the axle and makes a perfectly smooth surface. After this surface is formed you need use only half as much Mica as of any other axle grease.

Tin Box .....$0.15 10-lb. Pail $1.25
3-lb. Pail ..... .40 25-lb. Pail 2.75

THE UNIVERSAL MEAT CHOPPER

The Universal is the most perfect meat chopper on the market. The feed screw is so constructed that it feeds the meat to the knives without mashing it. The knives work against the plate giving a good clean cut, producing the best grade of chopped meat.



No. 331 ..... $5.00

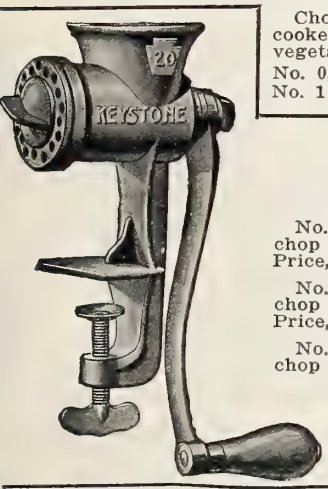
No. 333 ..... 5.25

No. 304 ..... 8.75

Stuffing Attachment for Nos. 331 and 333 ..... 1.00

Stuffing Attachment for No. 304 ..... 1.15

THE UNIVERSAL FOOD CHOPPER



Chops all kinds of meat, raw or cooked, and all kinds of fruits and vegetables.

No. 0, small family, 3 cutters $1.65
No. 1 ..... 1.95

KEYSTONE FOOD CHOPPER

No. 10, weight 3⅝ pounds, will chop 1½ pounds meat per minute. Price, each $1.35

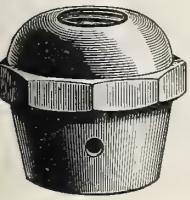
No. 20, weight 4½ pounds, will chop 2 pounds meat per minute. Price, each $1.60

No. 30, weight 6¼ pounds, will chop 3 pounds meat per minute. Price, each $1.80

No. 40 ..... $2.50
No. 45 ..... $2.50

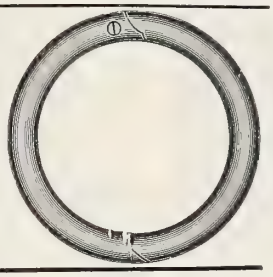
Stuffing attachment for No. 20 or 30 Chooper 85c

OX BALLS



Pair 40c

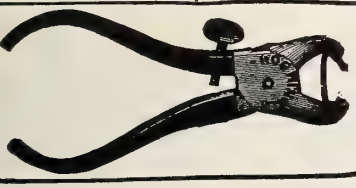
BULL RINGS



2½-in. Copper Rings ... 45c

3-inch Copper Rings ... 50c

Heavy Bull Ring ... $1.60



Hill's Hog Ringer

Price 25c

HOG SNOUT CUTTER, Price $2.00
PIG RINGS 20c
SHOAT RINGS 20c
HOG RINGS, box ... 20c

BULL LEADER SNAPS

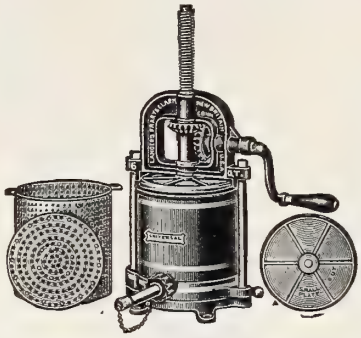
Price, without pole $1.25

SLIDING KRAUT CUTTER

Sliding Kraut Cutter with Two, Three or Four Knives.

No. 50—2 Knives, 8x26 inches $2.50
No. 55—3 Knives, 8x26 inches 2.75
No. 65—3 Knives, 9x30 inches 3.75
No. 80—4 Knives, 13½x40 inches 8.00

UNIVERSAL LARD AND FRUIT PRESS AND SAUSAGE STUFFER

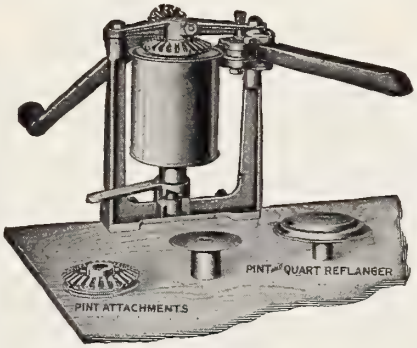


PRICES.

No. 44—4 quarts .. $10.50
No. 66—6 quarts .. 11.50
No. 88—8 quarts .. 12.50

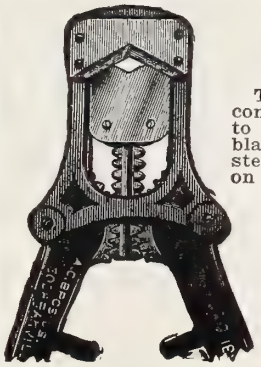
This Machine is an unexcelled **Lard Press,** an equally good **Sausage Stuffer,** and is also extensively used for pressing the juices from fruit for making jelly, etc. **The Universal Press** has many advantages over the old style press. It is **rigid** and **strong,** and is more easily handled because it is lighter.

VIRGINIA HOME CAN SEALER



With this Virginia Home Can Sealer it is as easy and cheaply for you to do just as good canning in your own kitchen as if you had the finest canning plant in the world. In fact, you would have as good equipment only on a small inexpensive scale with the additional advantage of having absolutely fresh-picked products to start with.

Price $21.00



KEYSTONE DEHORNING CLIPPER

The practice of dehorning cattle is coming more into vogue. It is a mercy to the animals. Prevents goring. The blades on the Keystone are made of best steel. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon.

Clipper with leader and rope, extra blades and screw, fully warranted.

Our special price $18.00

Clipper alone, **our special price** $16.00

OIL CANS

No. 77— Straight Spout.

Bent Spout.

No. 77—

These oil cans are made from Cold Rolled Steel and have Clock Spring Steel Bottoms.

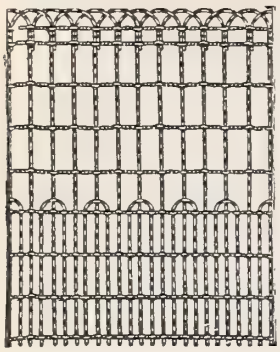
Price, each, 15c

No. 620 — Copperized Steel Mowing Machine Oiler.

No. 620 — Bent or Straight Spout.

Price, each, 25c

PERFECTION FABRIC



PAGE LAWN FENCE

Page Lawn Fence is designed especially to protect and beautify your property. It harmonizes with its surroundings and adds dignity and a feeling of privacy to your dwelling. Page Lawn Fence not only protects your property but also affords excellent protection for your children. Its construction is such that there is no foothold for children to climb over and it is dog, cat and chicken proof.

Lawn Fence is made of No. 9 heavy galvanized wire spacing between uprights at the bottom, being 1⅜ inches, and at the top 2⅞ inches; the cables are of heavily galvanized wire, spaced about six inches apart, except the two at top, which are spaced 2¼ inches apart, furnished regularly in rolls of 200 feet. Any length cut to order.

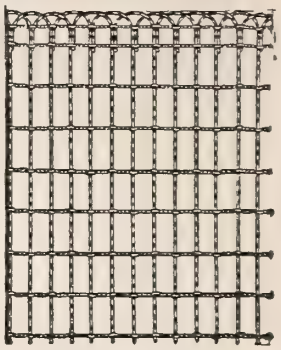
PRICE OF PERFECTION FENCING

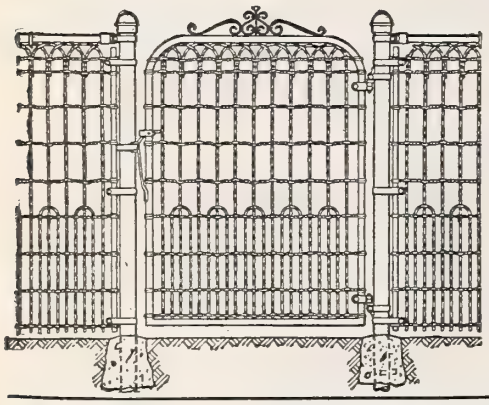
Height	List, Per 100 Ft.	Our Price
36 inches	$19.98	13c
42 inches	22.12	14c
48 inches	25.42	16c

PRICE OF ECONOMY FENCING

Height	List, Per 100 Ft.	Our Price
36 inches	$14.50	9¼c
42 inches	16.38	10¼c
48 inches	18.28	11½c
60 inches	24.86	16c

ECONOMY FABRIC

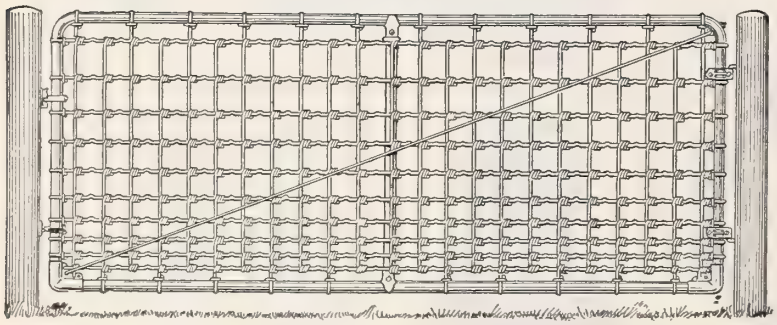




PERFECTION GATES

The frames are made of high-grade heavy steel tubing, and are regularly finished in galvanized frames. Filling of these gates is the regular Perfection Fence Fabric, described at top of page, and as shown by illustrations the gates have ornamental scroll tops. In giving the dimensions of gates, state first the height, and then the width. The width of these gates means the distance between the posts. The factory makes proper allowance for hinges and latch.

WALK GATES				SINGLE DRIVE GATES				DOUBLE DRIVE GATES			
Ht. In.	Width Ft.	Our List Price	Our Special Price	Ht. In.	Width Ft.	Our List Price	Our Special Price	Ht. In.	Width Ft.	Our List Price	Our Special Price
36	3	$4.96	$3.20	36	8	$12.10	$7.60	36	8	$11.84	$7.30
42	3	5.18	3.30	42	8	12.36	7.75	42	8	12.12	7.60
48	3	5.38	3.45	48	8	12.62	7.90	48	8	12.40	7.75
36	3½	5.18	3.30	36	10	14.14	8.85	36	10	13.80	8.65
42	3½	5.38	3.45	42	10	14.44	9.05	42	10	14.08	8.85
48	3½	5.60	3.55	48	10	14.72	9.20	48	10	14.36	9.00
36	4	5.38	3.45	36	12	16.18	10.15	36	12	15.76	9.85
42	4	5.60	3.55	42	12	16.46	10.30	42	12	16.06	10.05
48	4	5.80	3.70	48	12	16.80	10.50	48	12	16.36	10.25



GENERAL PURPOSE FARM GATES

The frame is made from heavy 1¼ inch outside dimension tubing. The wire filling is Heavy Galvanized No. 9 Woven Wire. The frames are Galvanized, and electrically welded at the joints, thus insuring a gate that will not sag or twist out of alignment. In addition the gates are strengthened by internal braces.

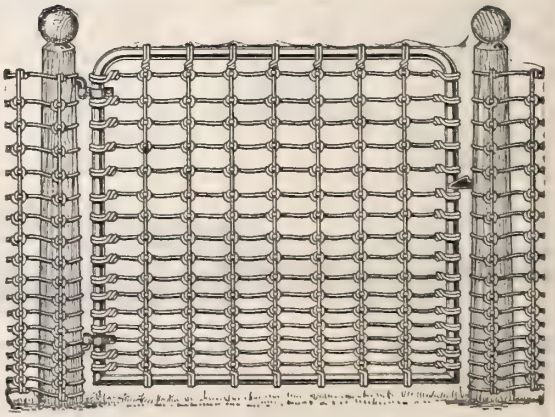
The fabric is actually woven into the frame and not simply tied in with a lace wire.

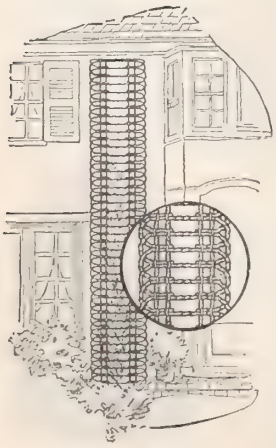
Height	Distance Between Posts 10 Ft.	12 Ft.
48 inches	$8.55	$9.75
54 inches	9.00	10.25

PAGE POULTRY GATE

The gate for poultry enclosures where a small opening is desired. The wires are spaced close enough to hold back the smallest chicks. Frames are of 1 1/16-inch tubular steel with No. 12½ gauge galvanized filler.

	Distance between posts—3½ ft. List	Retail
48 inches in height	$5.50	$3.50
58 inches in height	6.00	3.75
72 inches in height	8.40	6.00





TRELLIS

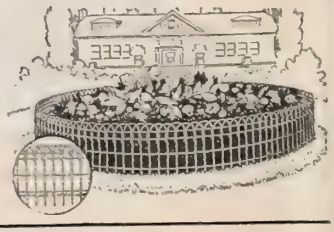
This trellis carries the general style of Perfection Fencing. It is extremely strong, embracing beauty and adaptability. Cut in any length desired.

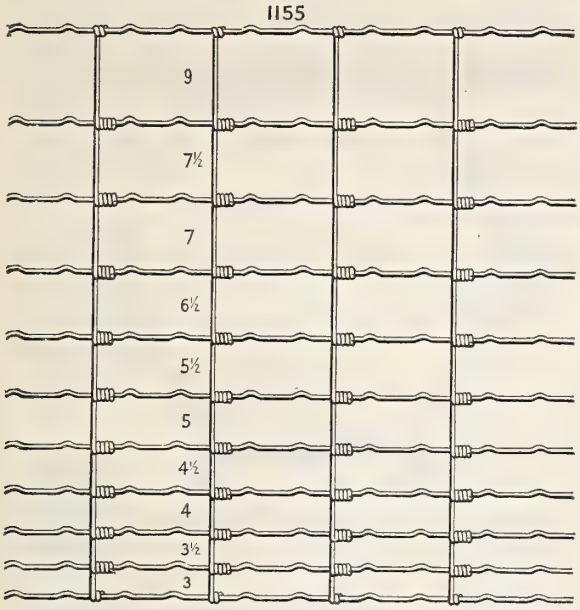
Width	Our List Price	Our Price
18 inches	12c	8c
24 inches	14c	9c

PERFECTION FLOWER-BED GUARD

18 inches and 12 inches above ground. Has 3 cables of two No. 13 wires. Has No. 9 crimped uprights. All heavy galvanized pickets project for insertion in ground. Requires no posts. Can be cut to length to any bed. It provides protection against dogs and chickens.

	Foot
18 inches above ground, our list price	12c
Our special price	8c
12 inches above ground, our list price	10c
Our special price	7c





PAGE GENERAL PURPOSE FENCE

The Name PAGE to Fence is What Sterling Means to Silver

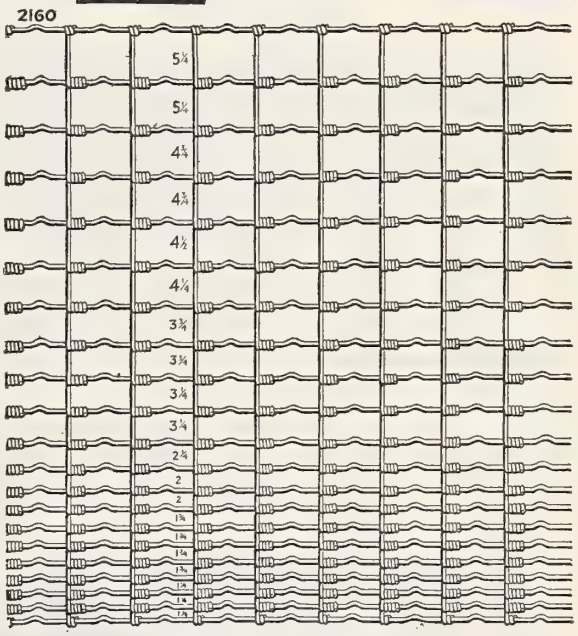
The Page Steel and Wire Company steadily maintains a quality so high that its fence has always been a standard by which good fence is judged. As a result of this policy the first small building has grown into an immense plant covering many acres. Page Fence has been serving its owners honestly and faithfully for many years. To you, Page offers a long-time investment that will pay dividends in service and utility long after ordinary fence has passed into discard.

Style No.	Height in Inches	Approx. Weight Per Rod, Pounds	12-inch Stays, Retail Price, Per Rod	Approx. Weight Per Rod, Pounds	6-inch Stays, Retail Price per Rod
1155	55	12.2	**$0.61**	16.7	**$0.86**
1047	47	10.9	**.55**	14.8	**.75**
939	39	9.7	**.49**	13.1	**.68**
832	32	8.6	**.44**	11.4	**.58**
726	26	7.5	**.39**	9.8	**.50**

ACTUAL SIZE OF WIRES

Top Bar.....9 Intermediate Bars.....11

Bottom Bar.....9 Stays 11



PAGE POULTRY AND GARDEN FENCE

It is an ideal fence against poultry and small animals. The spacing is graduated from 1⅛ inches at the bottom to 5¼ inches at the top, as shown by the illustration and the distance between the stays or uprights is 6 inches. It is a great favorite. Furnished regularly in rolls containing 10 rods or 165 lineal feet.

Style No.	Distance Between Stays	Height, Inches	Approx. Weight per Rod	Retail Price per Rod
2371	6	73	11.4	**$0.74**
2160	6	58	10.3	**.68**
1949	6	48	9.2	**.62**
1635	6	35	7.6	**.49**

ACTUAL SIZE OF WIRES

Top Wire.....No. 11 Intermediate Wires. No. 14½

Bottom Wire..No. 11 Stay Wires.....No. 14½

CATTLE FENCE

This is an ideal horse and cattle fence and is used largely for division fences. The stays are 12 inches apart, and we do not recommend its use for hogs. The top bar is No. 9, the bottom No. 9, the intermediate bars are No. 11 and the stays are No. 11 wire.

Style Number	Height in Inches	12-inch Stays. Approx. Weight per Rod, Pounds	Retail Price per Rod
949	49	10.3	**$0.53**
845	45	9.3	**.47**
635	35	7.2	**.38**

GALVANIZED STEEL FENCE POSTS

These posts are neat, strong, durable and easy to erect. They will give you much more and better service than can be expected of wood posts because all being alike in size and quality of material, you get benefit of every post in the fence from year to year, while wood posts rot and decay. The line posts are strong enough to hold up any wire fencing, and furnish all necessary resistance. The end and corner posts are so strong that they will maintain any wire fence made.

Nos.	Length in Feet	Approx. Weight in Lbs.	Special Prices Per Post
14½ Line Post	5	7.6	**$0.49**
14½ Line Post	6	9.1	**.59**
14½ Line Post	6½	9.8	**.63**
14½ Line Post	7	10.6	**.69**
14½ Line Post	8	12.1	**.75**
Junior End Post	6		**1.40**
Junior End Post	8		**1.85**
Junior Corner Post	6		**2.05**
Junior Corner Post	8		**2.75**
Ball Top for Posts			**.23**
Driving Caps for Line Posts			**.50**

SWEET'S STEEL FENCE POSTS

This Year's Best Seller

A special high carbon steel post of extreme rigidity, for all types of fence construction. The design of these posts is a **flanged leg channel section** which assures maximum strength from an extraordinarily high section modulus. In addition to actual tests for strength to withstand the maximum bending srains of heavy weights and wind loads, these posts are further satisfying a need apparent to engineers, builders, manufacturers and property owners, for:

Superior Strength. Attractive Appearance Maximum Durability Unequalled Economy

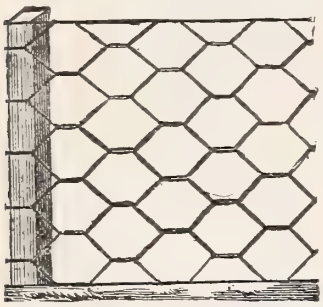
These posts are heartily recommended for use with Field Fences of all types—Poultry, Garden, Arbor, Residences and Estates.

Sweet's Line Post with Ground Plate

Length		Weight	Price
3 ft.	No. 3	4.38 lbs.	**$0.20**
5 ft	No. 3	6.63 lbs.	**.34**
6 ft.	No. 3	7.75 lbs.	**.40**
6½ ft.	No. 3	8.31 lbs.	**.43**
7 ft.	No. 3	9.13 lbs.	**.48**
7½ ft.	No. 3	9.69 lbs.	**.50**
8 ft.	No. 3	10.25 lbs.	**.53**
9 ft.	No. 3	11.38 lbs.	**.60**
10 ft.	No. 3	12.50 lbs.	**.65**
End Posts			
6 ft.	No. 3	19.75 lbs.	**1.30**
7 ft.	No. 3	22.26 lbs.	**1.40**
8 ft.	No. 3	24.50 lbs.	**1.50**
10 ft.	No. 3	29.00 lbs.	**1.70**
Corner and Two-Way Brace Posts			
6 ft.	No. 3	32.00 lbs.	**2.75**
7 ft.	No. 3	35.64 lbs.	**3.00**
8 ft.	No. 3	39.00 lbs.	**3.25**
10 ft.	No. 3	45.75 lbs.	**3.50**

DIAMOND MESH POULTRY NETTING

The wire we offer is No. 20, double twist, 2-inch mesh, thoroughly galvanized. Sold in bales of 150 running feet.



Galvanized After Weaving

No.	Inches Wide	Sq. Feet	Price Per Bale
20	12	150	$1.00
20	18	225	1.45
20	24	300	1.85
20	36	450	2.55
20	48	600	3.30
20	60	750	4.20
20	72	900	5.00

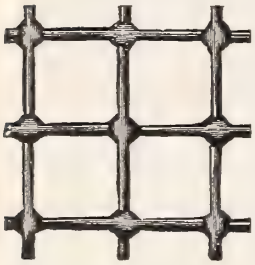
Price **1½c** per square foot in less than bale lots.

Staples for fastening, **10c** per pound.

One Inch Mesh

1-inch Mesh Galvanized after Weaving			Retail Price
No. 20	12 in. wide	150 sq. ft.	$2.30 per bale
No. 20	18 in. wide	225 sq. ft.	3.30 per bale
No. 20	24 in. wide	300 sq. ft.	4.20 per bale
No. 20	36 in. wide	450 sq. ft.	5.70 per bale
No. 20	48 in. wide	600 sq. ft.	7.60 per bale
No. 20	60 in. wide	750 sq. ft.	9.50 per bale
No. 20	72 in. wide	900 sq. ft.	11.40 per bale

GALVANIZED STEEL WIRE CLOTH



Made from heavy wire thoroughly galvanized after weaving. This insures long life, as every part of the wire is coated by the dipping process.

Used largely in corn cribs to make them mice and rat proof, also for sieves and fan screens and over windows for protection.

We carry it in stock in widths 2, 2½, 3 and 4 foot.

The word mesh means number of meshes to the inch (2x2, 2 to the inch; 4x4 mesh, 4 to the inch, etc.) Full rolls contain 100 running feet.

PRICE.

	Full Rolls.	Less Than Full Rolls.
2x2 Mesh, per sq. ft.	$0.04¼	$0.05
3x3 Mesh, per sq. ft.	.04½	.05½
4x4 Mesh, per sq. ft.	.04¾	.06

"COTTAGE" LAWN AND GARDEN FENCE

Height, inches.	List Price, per rod.	Our Price, per rod.
24	$2.00	$1.20
36	3.00	1.80
48	4.00	2.40
60	5.00	3.00
72	6.00	3.60

GALVANIZED GATE HINGES and LATCHES

No. H1—Walk Gate Hinge Eye	1⅝ in. O. D.	$0.50
No. H3—Walk Gate Hinge Eye	1⅛ in. O. D.	.45
No. H7—Post Hinge Hook	2 in. O. D.	.50
No. H9—Heavy Post Hinge Hook	2½ in. O. D.	.75
No. C105—2 Way Latch	2½ in. O. D.	.75
No. C102—2 Way Complete Latch	2 in. O. D.	.50
Pig Ear Latch	2 in. O. D.	.80
Pig Ear Latch	2½ in. O. D.	.90
Spring Latch for Walk Gate		.60
Spring Latch for Drive Gate		.65

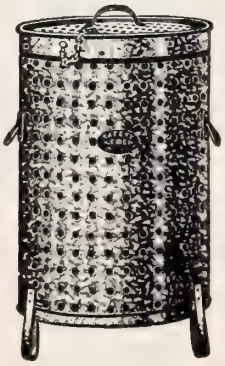
REMOVABLE STEEL CLOTHES-LINE POST

Complete with base $2.75

WIRE STRETCHER

No. 1, price $1.75

Trash Burner or Consumer



The best way to dispose of your waste paper and rubbish is to burn it in a Consumer. Avoids danger and helps to keep the yard and lawn clean from litter.

No. 4—20 in. dia., 33 in. high **$3.75**

No. 3—17 in. dia., 28 in. high **$2.90**

The Improved "Neverslip" Stretcher

The Neverslip Stretcher has no teeth to cut or injure wire. Simple and strong in construction. Made of strong, Malleable Iron and will last a lifetime. One man operates it, and both hands are left to drive staple. Price **$1.60**

FOLDING CLOTHES DRYER

Steel Post

This is the best folding dryer to be had. Takes up but little space in yard. Spruce arms and post, japanned castings.

13-foot spread—130-foot rope.
Economy Clothes Dryer **$7.50**

LOTT STRETCHER

AM. S. & W. CO.

Clamp Bars made of reinforced half-oval iron to keep wire from slipping.

Lott Stretcher furnished complete except Lever. Use for this purpose an old piece of pipe or lever cut from wood.

Price **$10.00**

BARBED WIRE

Write for Prices

CERTAIN-TEED ROOFING

—guaranteed 5, 10 or 15 years for No. 1, 2 or 3 respectively—backed by the responsibility of the World's greatest and biggest Roofing and Building Mills. The **Certain-teed** label on this Roofing stands for a definite guaranteed service—a protection for you. Why try to save a dollar or two by putting on a cheap Roof that is not guaranteed when you can buy **Certain-teed** for just a little more money and get much longer service on your Roof. In the long run it's less expensive to buy **Certain-teed.**

No. 1, 108 square feet	**$1.75**
No. 2, 108 square feet	**2.00**
No. 3, 108 square feet	**2.30**
No. 4, 108 square feet	**2.70**

GUARD ROOFING

GUARD (Special Quality)

This roofing is offered as a good average quality product. It will give good service on the roof. Where the highest quality roofing is not necessary this product is recommended.

No. 1—Light, about 35 lbs., per square	**$1.50**
No. 2—Medium, about 45 lbs., per square	**1.75**
No. 3—Heavy, about 55 lbs., per square	**2.00**

CORPORAL (Competition Quality)

Not a quality product.

Made to meet price competition. Should be sold only where price is the principal consideration.

No. 1—Light, about 35 lbs., per square	**$1.20**
No. 2—Medium, about 45 lbs., per square	**1.45**
No. 3—Heavy about 55 lbs., per square	**1.65**

SLATESURFACED ROLL ROOFING

Certain-teed Extra Quality

BLUE-BLACK, RED, OR GREEN

Weight, 90 lbs., Guaranteed 10 Years, per square **$2.50**

MAJOR REGULAR QUALITY

BLUE-BLACK, RED, OR GREEN

Weight, 80 lbs., Guaranteed 8 Years, per square **$2.35**

SLATER'S FELT

500 square feet rolls, 30 pounds **$1.10**

INSULATING PAPER

500 square feet rolls, 35 pounds **$2.65**

ASPHALT FELT

No. 15—Rolls 432 square feet, 65 pounds	**$2.35**
No. 30—Rolls 216 square feet, 65 pounds	**2.35**

ROSIN SIZE SHEATHING PAPER

In Rolls of 500 Square Feet Each

20-lb. Sheathing Paper, per roll of 500 square feet	**$ .70**
30-lb. Sheathing Paper, per roll of 500 square feet	**1.10**
40-lb. Sheathing Paper, per roll of 500 square feet	**1.45**

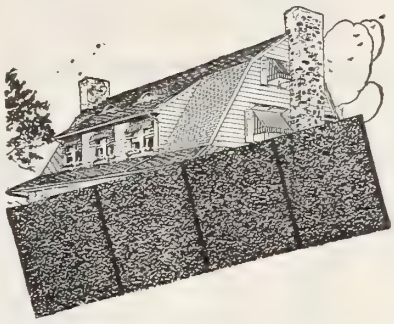
Galvanized Steel Corrugated Roofing

1¼ and 2½-inch corrugations, standard 29 gauge open hearth steel thoroughly galvanized. Made in sheets 26 inches wide; 6, 7, 8, 9 and 10 feet long. 12-foot sheets **25c.** a square extra. Galvanized Ridge Roll, both in corrugated and plain.

No. 29 Gauge, per square	**$4.50**
Ridge Roll, Plain, per foot	**.10**
Ridge Roll, Corrugated, per foot	**.12**

Certain-teed 4-Width Shingle

Blue-Black, Red or Green.



These shingles, when properly laid, offer weather protection in all climates. They are unaffected by atmospheric changes or by heavy rain or snow. Extreme heat or cold will not materially cause them to expand or contract. As an insulator they keep the house cooler in summer and warmer in winter.

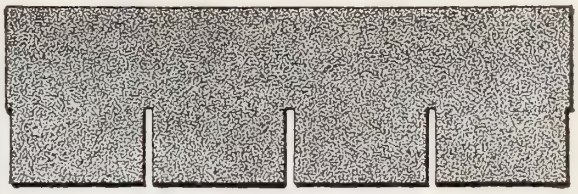
Marked exactly 4 inches from the butt for spacing.

Weight about 196 lbs. Size 10x36 inches. Put up two packages per square.

Guaranteed 10 years; per square **$6.20**

CERTAIN-TEED STRIP SHINGLES

SLATE SURFACED



RED, BLUE BLACK AND GREEN

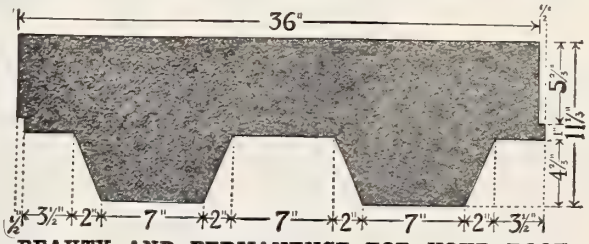
These shingles possess all the durability, attractiveness, weather protection and fire-resisting qualities of the modern asphalt shingle—plus 50 per cent. or more saving in the cost of application, because they can be laid so quickly.

Four shingles laid at a time—no spacing—no chalk line—one-half less nails—one-half less nail holes—four-fifths less cracks—no painting—no repairs.

CERTAINTEED STRIP SHINGLES are water-proofed, with pure refined asphalt. The wearing surface is natural chipped slate in handsome blue-black red and green colors. The colors

Price, per square **$6.70**

CERTAIN-TEED HEXAGONAL SHINGLES

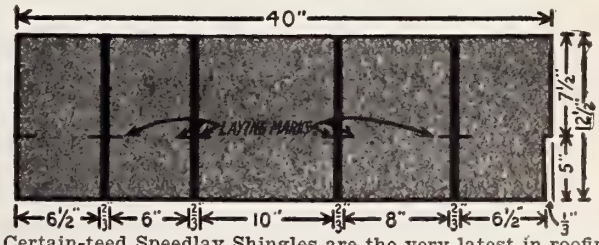


BEAUTY AND PERMANENCE FOR YOUR ROOF

The **Certain-teed** Hexagonal Slab Shingle is a shingle of beauty and permanence. It is made of highest grade, long-fibered felt, heavily saturated with asphalt, and surfaced with a rugged coat of natural colored crushed slate. This surface cannot fade but will always add the same pleasing touch of color to your home.

Price, Blue-Black, Red or Green	**$5.25**
Color-Blend	**5.65**

CERTAIN-TEED SPEEDLAY SHINGLES



Certain-teed Speedlay Shingles are the very latest in roofing materials—they satisfy every demand of modern roofing, and they are way ahead of any other shingle on the market. Colors—rich in delightful assortments of pleasingly irregular design, adaptable to the taste of any artist, any architect. Self-spacing, with fewer nails used, moderately priced.

12½x40, Weight 200 pounds to square

Red Cast, per square	**$6.70**
Green Cast, per square	**6.70**

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

Certain-teed PAINT

HOUSE PAINTS

	Gals.	½ Gals.	Qts.
400 Inside Gloss White	$3.25	$1.70	$0.88
401 Silver Gray	3.05	1.60	.83
402 Gray Tint	3.05	1.60	.83
404 Steel Gray	3.05	1.60	.83
408 Light Slate	3.05	1.60	.83
412 Light Blue	3.05	1.60	.83
414 Blue	3.05	1.60	.83
415 Royal Blue	3.05	1.60	.83
416 Cream	3.05	1.60	.83
418 Colonial Ivory	3.05	1.60	.83
419 Primrose Yellow	3.05	1.60	.83
424 Warm Buff	3.05	1.60	.83
425 Rich Buff	3.05	1.60	.83
431 Crimson Red	3.75	1.96	1.00
434 Golden Brown	3.05	1.60	.83
435 Bungalow Brown	3.05	1.60	.83
437 Brown	3.05	1.60	.83
440 Apple Green	3.05	1.60	.83
441 Nile Green	3.05	1.60	.83
443 Window Blind Green	3.05	1.60	.83
444 Olive Green	3.05	1.60	.83
446 Dark Bronze Green	3.05	1.60	.83
448 Outside White	3.25	1.70	.88
449 Inside White	3.25	1.70	.88

Stain—Varnish

Covering capacity about 500 to 600 sq. ft. per gallon, one coat. Dries dust-free in from 4 to 5 hours and hard overnight.

	Gals.	Qts.	Pts.	½ Pts.	¼ Pts.
30 Ground Color	$2.60	$0.76	$0.43	$0.26	$0.17
31 Mahogany	3.40	.95	.52	.31	.19
32 Light Oak	3.40	.95	.52	.31	.19
33 Dark Oak	3.40	.95	.52	.31	.19
34 Wlanut	3.40	.95	.52	.31	.19
35 Cherry Red	3.40	.95	.52	.31	.19
36 Golden Oak	3.40	.95	.52	.31	.19

Flat Wall Paint

Covering capacity, one coat, about 700 sq. ft. per gallon on smooth plaster, and about 500 to 600 sq. ft. per gallon on rough plaster.

	Gals.	½ Gals.	Qts.
470 Pearl Gray	$2.15	$1.15	$0.62
476 Royal Tan	2.15	1.15	.62
478 French Gray	2.15	1.15	.62
479 Old Rose Tint	2.15	1.15	.62
481 Pea Green	2.15	1.15	.62
485 Pale Green	2.15	1.15	.62
486 Ivory Tint	2.15	1.15	.62
488 Bluff Stone	2.15	1.15	.62
489 Cream	2.15	1.15	.62
494 Pink Tint	2.15	1.15	.62
495 Light Buff	2.15	1.15	.62

Floor, Porch and Deck Enamel

Covering capacity about 250 to 300 square feet per gallon, two coats.

	Gals.	½ Gals.	Qts.
575 Light Gray	$3.00	$1.60	$0.85
579 Medium Lead	3.00	1.60	.85
581 Dark Oak	3.00	1.60	.85
582 Brown	3.00	1.60	.85
583 Dark Mahogany	3.00	1.60	.85
585 Light Oak	3.00	1.60	.85

Certain-teed Asphalt Roof Coating

1-gal. can **62c**—5-gal. can **$2.35**—50-gal. bbl. **$18.50**

Certain-teed Asbestos Roof Coating

1-gal. can **63c**—5-gal. can **$2.40**—50-gal. bbl. **$19.50**

Certain-teed Plastic Cement

Leaks in new or old roofs of wood, metal, slate, tile or prepared roofing may be repaired quickly, easily and permanently with Certain-teed Plastic Cement. It is excellent also for flashing around chimneys, metal cornices and skylights; for relining old gutters and metal valleys; and for use at all other points where there are leaks, holes, breaks, or cracks caused by contraction or expansion, or where the material has worn out or broken away.

1-lb. pkgs.	$0.15	25-lb. pkgs.	$1.85
5-lb. pkgs.	.45	50-lb. pkgs.	3.00
10-lb. pkgs.	.80	275-lb. pkgs.	12.70
		450-lb. pkgs.	20.50

PAINT BRUSHES

Quick Drying Enamel

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.	¼ Pts.
814 Orchid	$3.60	$1.85	$0.97	$0.52	$0.32	$0.19
815 Jade Green	3.60	1.85	.97	.52	.32	.19
817 Manchu Red	3.60	1.85	.97	.52	.32	.19
818 Powder Blue	3.60	1.85	.97	.52	.32	.19
819 Lettuce Green	3.60	1.85	.97	.52	.32	.19
820 White	3.60	1.85	.97	.52	.32	.19
821 Creole Ivory	3.60	1.85	.97	.52	.32	.19
822 Cream	3.60	1.85	.97	.52	.32	.19
823 Aut. Yellow	3.60	1.85	.97	.52	.32	.19
824 Tangerine	3.60	1.85	.97	.52	.32	.19
827 Azure	3.60	1.85	.97	.52	.32	.19
828 Coronation Blue	3.60	1.85	.97	.52	.32	.19
829 Sherwood Green	3.60	1.85	.97	.52	.32	.19

Stain—Shingle

	5 Gal Cans Gal.	1 Gal. Cans Gal.
1 Bungalow Brown	$1.30	$1.35
2 Weathered Brown	1.30	1.35
4 Moss Green	1.50	1.55
5 Sylvan Green	1.50	1.55
6 Silver Gray	1.85	1.90
8 White	1.85	1.90
9 Light Green	1.50	1.55

Barn, Bridge and Roof Paint

	5 Gal. Cans Gal.	1 Gal. Cans Gal.
461 Red	$1.45	$1.50
462 Green	1.45	1.50
466 Bright Red	1.65	1.70

VARNISHES

Covering capacity of all varnishes from 600 to 700 square feet per gallon, one coat.

Universal Varnish

Unexcelled for all general interior and exterior purposes. This varnish is a very superior product and gives satisfaction in all its many uses.

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.
900 Universal Varnish	$4.50	$2.35	$1.25	$0.70	$0.38

Floor Varnish

Dries dust-free in 3 hours, and dry enough overnight to be walked upon.

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.
911 Floor Varnish	$3.40	$1.80	$0.95	$0.55	$0.31

Interior Spar Varnish

Dries dust-free in about 4 hours, and hard in 18 to 20 hours, rubbed in about 72 hours.

	Gals.	½ Gals.	Qts.	Pts.	½ Pts.
916 Interior Spar	$3.50	$1.85	$1.00	$0.55	$0.32

Shellac

Pure Shellac, cut in alcohol.

	Gals.	½ Gals.	Qts.	Pts.
931 Orange	$1.75	$1.05	$0.60	$0.35
932 White	2.50	1.35	.80	.43

VARNISH BRUSHES

1 in. Harmony Varnish	$0.15
1½ in. Harmony Varnish	.25
2 in. Harmony Varnish	.30
2 in. Loyal Varnish	.35
2½ in. Loyal Varnish	.45
3 in. Loyal Varnish	.65
No. 1 Stag Varnish	.30
No. 2 Stag Varnish	.40
No. 3 Stag Varnish	.55
No. 4 Stag Varnish	.70
No. 5 Stag Varnish	.90
No. 2 Sash	.15
No. 4 Sash	.20
No. 6 Sash	.30
No. 10 Sash	.50

WALL BRUSHES

3 in. Ching Wan	$0.60
3½ in. Ching Wan	.85
4 in. Ching Wan	1.10
4 in. O. K. Diamond Wall	2.25
4 in. Diamond Wall	2.00

CELEBRATED CROSS-CUT SAWS

Narrow American

5 ft.—Our Special Price.....$1.85
5½ ft.—Our Special Price..... 2.10
6 ft.—Our Special Price..... 2.25

Narrow Champion

5 ft.—Our Special Price.....$1.60
5½ ft.—Our Special Price..... 1.75
6 ft.—Our Special Price..... 1.95

Wide Back Saws

WIDE AMERICAN TOOTH

5 ft.—Our Special Price.....$2.95
5½ ft.—Our Special Price..... 3.25
6 ft.—Our Special Price..... 3.60

CHAMPION TOOTH

5 ft.—Our Special Price.....$2.65
5½ ft.—Our Special Price..... 2.95
6 ft.—Our Special Price..... 3.20

Price of Cross-Cut Saw is Without Handle. **Climax Handles, 40c per Pair.**

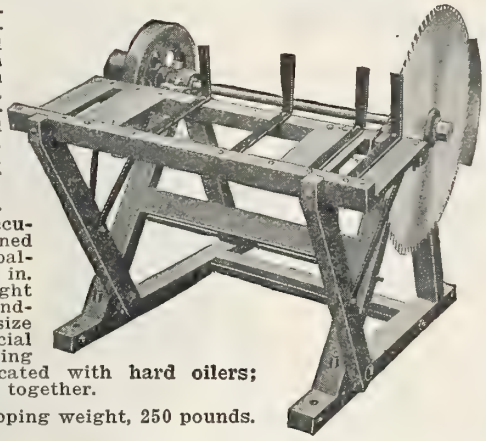
WOOD SAWS

No. 617—Wood brace frame, single rivet, painted red, plain tooth, breasted blade, 2½ inches wide. **Special price $1.25**

No. 523—Wood brace frame, single rivet, selected stock, high finish, painted red, jumbo rod tinned, Tuttle tooth, breasted blade, 2¼ inches wide. **Our special price** $1.50

No. 923—Jumbo rod tinned, Tuttle tooth blade, breasted, 2¼ inches wide. Double brace, double riveted. Painted vermilion and varnished. **Our special price** $1.55

NO. 700 WITH TILTING TABLE

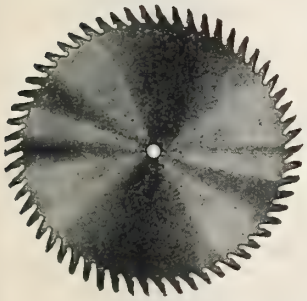


Built specially for sawing poles and cord wood with ease and in fastest time. Mandrel of finest cold rolled steel. $1\frac{7}{16}$ in. diameter, 49 in. long—fitted for saw with 1⅜ in. hole. Flywheel is accurately machined and carefully balanced, 10½ in. diameter, weight 65 pounds. Standard pulley, size 6x6 in. Special Self - Aligning Bearings lubricated with **hard oilers;** securely bolted together.

Complete shipping weight, 250 pounds.

Without Saw Blade...$25.75
With 22-inch Saw..... 29.05
With 24-inch Saw..... 29.65
With 26-inch Saw.....$30.30
With 28-inch Saw..... 30.80
With 30-inch Saw..... 31.50

GRITCO CIRCULAR SAWS



These Saws are the result of over 50 years' study and experience. Absolutely the best steel is invariably used and each blade is given a tough, even temper and perfect tension, all of which is essential to the successful running of the saw. The workmanship of these blades is unequaled. The prices given are for saws sharpened and set. All blades with 1⅜-inch hole.

	Retail
22-inch, No. 12 gauge...	$3.30
24-inch, No. 11 gauge...	3.90
26-inch, No. 11 gauge...	4.55
28-inch, No. 10 gauge...	5.05
30-inch, No. 10 gauge...	5.75

CLARK ALL-DAY HEAT UNITS

No Flame—No Smoke—No Odor

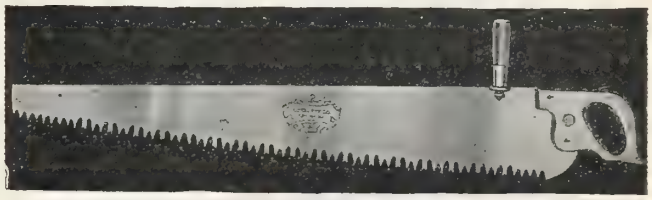
PRICES

Per dozen in shipping carton. Shipping weight 6½ pounds. **$1.20.**

Per gross—12 cartons in wooden shipping case. Shipping weight 98 pounds. **$14.40.**

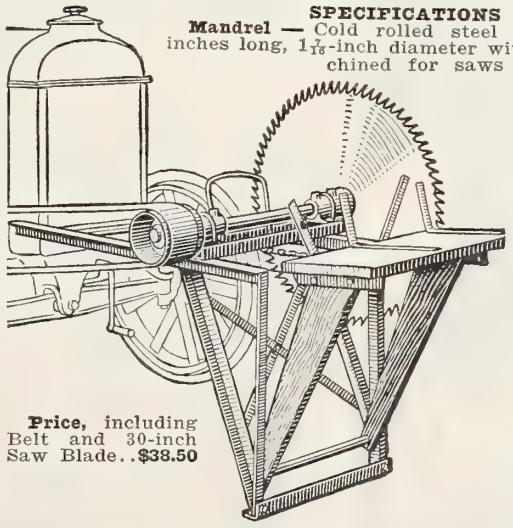
Clark All-Day Heat Units are 2½ inches wide by 1½ inches thick by 7 inches long.

ONE MAN CROSS-CUT SAW



Champion—3 ft. $1.95, 3½ ft. $2.25, 4 ft. $2.65

FORDSON FARM-ALL AND McCORMICK-DEERING TRACTOR SAWING OUTFIT



SPECIFICATIONS

Mandrel — Cold rolled steel shafting, 36 inches long, $1\frac{7}{16}$-inch diameter with arbor machined for saws having 1⅜-inch hole. The mandrel washers are large and accurately machined.

Bearings—Ball and socket type. Self aligning. Can be adjusted to take up wear.

Pulley — Eight inches in diameter with 6-inch crown face. This pulley was designed especially for use with our Fordson Saw Attachments.

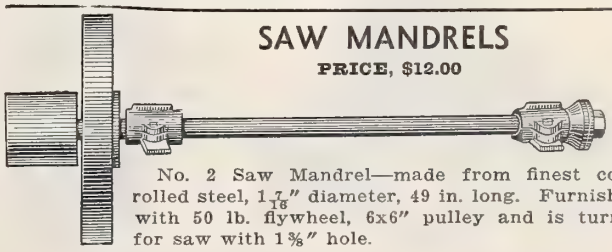
Price, including Belt and 30-inch Saw Blade..$38.50

Belt—When specified we furnish a high-grade rubber belt 15 feet 2 inches long, which gives splendid satisfaction. A simple arrangement is provided for tightening belt when necessary.

Blade—When specified we can furnish cordwood blades in any size up to and including 30 inches. They are filed and set, ready for immediate use, and are fully guaranteed. We recommend the 30-inch size, which will be found most satisfactory for average conditions.

SAW MANDRELS

PRICE, $12.00



No. 2 Saw Mandrel—made from finest cold-rolled steel, $1\frac{7}{16}$" diameter, 49 in. long. Furnished with 50 lb. flywheel, 6x6" pulley and is turned for saw with 1⅜" hole.

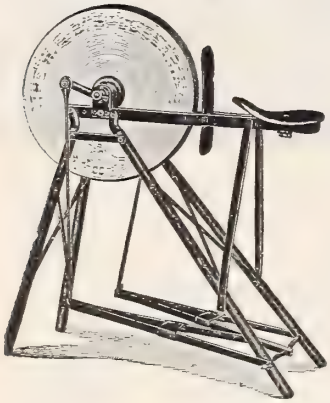
Griffith & Turner Ball-Bearing Grindstone

The G. & T. Ball Bearing Grindstone has a combination steel and hardwood frame. Stone carefully selected Berea grit. Ball-bearing steel journals and axles. Stones usually furnished vary in thickness from 1¾ to 2¼ inches. Weight of frame and fixtures only 32 pounds. Shipped knocked down unless ordered otherwise. If crated an additional charge will be made.

No. 1 Stone, 90-110 pounds, each ____ **$9.75**

No. 2 Stone, 70-80 pounds, each ____ **$8.75**

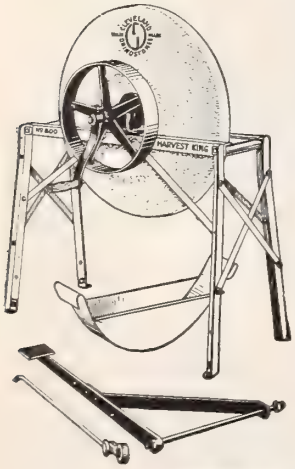
No. 3 Stone, 40-50 pounds, each ____ **$8.00**



GRITCO BALL-BEARING GRINDSTONE

is one of the strongest built, and is practically indestructible, price ____ **$8.75**

HARVEST KING POWER GRINDSTONE



The frame is constructed of heavy angle steel strongly braced. It is equipped with high-grade selected Grindstone 24 in. by 2 in., furnished with 12-in. pulley with 2⅜-in. face, and heavy steel roller bearings, drip cup and hand cranks.

The frame is shipped folded complete, stone crated, to save freight. Weighs about 125 lbs.

Price, regular, which includes 24 in. by 2 in. Stone, 12 in. x 2⅜ in. Pulley, Hand Crank, and Drip Cup.....**$13.50**

EXTRAS

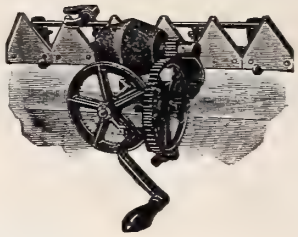
Trough **1.75**

Treadle, Pitman and Bearing **1.75**

LOOSE GRINDSTONES

We carry a full line of loose stones.

Prices: From 40 lbs. to 200 lbs., per lb. **5c.** Under 40 lbs., per lb., **5½c.** Over 200 lbs., per lb., **6c.**

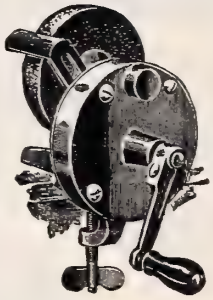


No. 82 Sickle and Tool Grinder

The No. 82C Grinder is a simple, compact and serviceable hand-power sickle and tool grinder especially suited to farm work. It can be clamped either to a mower wheel or to a bench. The tool wheel is 4¼ x 1½ inches.

83—With Bevel and Flat Tool Wheel.....**$7.00**

82—With Bevel Wheel..... **6.00**



TOOL GRINDERS

Domestic Kitchen Grinder, with smooth stone for sharpening knives **$2.25**

No. 24—It is equipped with a 4x1-in. Grinding Wheel, and is intended for a Household Grinder. Weighs 6 lbs. boxed. Price **$3.10**

No. 25—It is equipped with a 5x1-in. Grinding Wheel, and will be found a very handy tool for mechanics. Weighs 7 lbs. boxed. Price.....**$3.80**

No. 26—It is equipped with a 6x1-in. Grinding Wheel. Weighs 11 lbs. boxed. Price **$5.10**

ALFALFA BELTING

Alfalfa water-proof belting is a belt woven especially with a view of obtaining great tensile strength. Nothing but the finest long, staple cotton is used.

	List	Our Price
2-in., 4-ply, ft.	**$0.46**	**$0.18**
3-in., 4-ply, ft.	**.65**	**.25**
4-in., 4-ply, ft.	**.82**	**.30**
5-in., 5-ply, ft.	**1.28**	**.50**
6-in., 5-ply, ft.	**1.53**	**.60**

RAW-HIDE BELT LACING

⅜-in., per ft.....**3c**
½-in., per ft.....**4c**
⅝-in., per ft.....**5c**

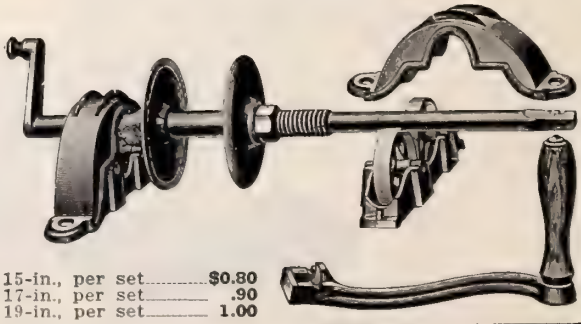
BALING TIES

SINGLE LOOP BALE TIES—9½-ft., No. 14.....**$1.75**

ANNEALED BALING WIRE—Nos. 11, 12, 13, 14, and 16 always on hand at lowest market prices on application.

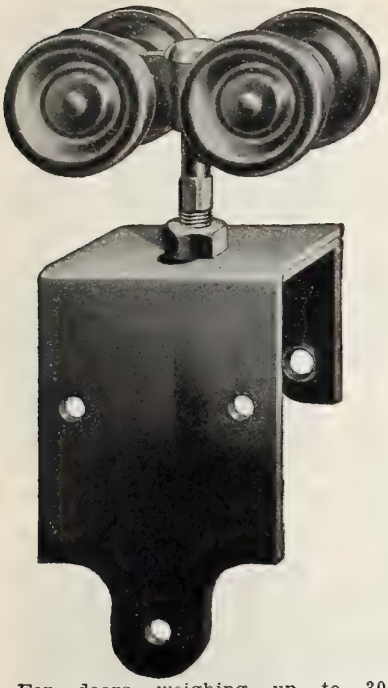
Special prices in quantity to Threshermen and Balers.

CAST GRINDSTONE FIXTURES



15-in., per set.....**$0.80**
17-in., per set..... **.90**
19-in., per set..... **1.00**

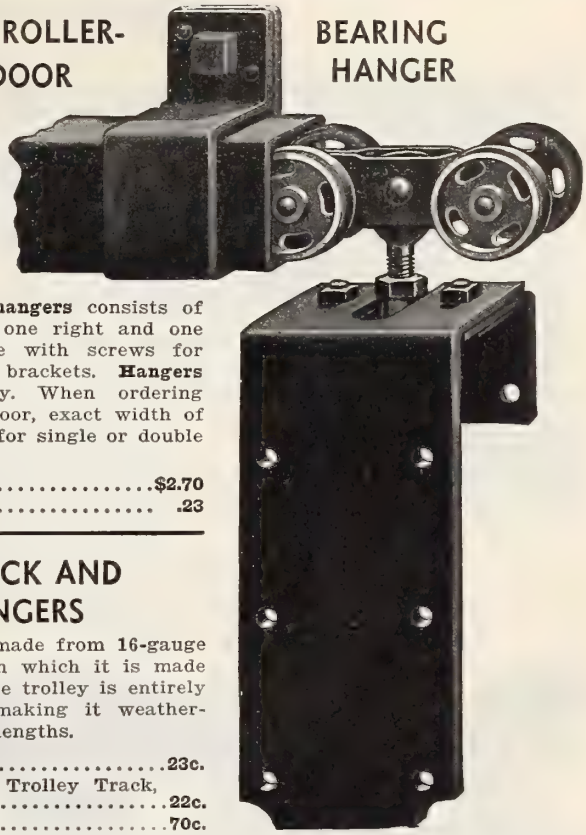
No. 20-2 BARN DOOR HANGER



For doors weighing up to 300 pounds. 2⅛-inch steel wheels, steel roller bearings, 6-inch apron. For doors 1¾ to 2½ inches thick. Packed one pair of hangers with bolts, one joint and two end brackets. Hangers adjustable, vertical and lateral. 8½ pounds per pair.

Price $2.50
No. 31 Track, per foot..... .23

NO. 25 TROLLEY ROLLER-STEEL BARN DOOR BEARING HANGER



Has two adjustments—vertical and lateral. Has return apron. (See cut). **Pendant** 9 inches long, 3½ in. wide, 3-16 inch thick. **Suitable** for doors 2 to 3 inches thick and weighing from 400 to 600 lbs. Made to run on No. 31 track. **A pair of hangers** consists of two hangers and carriers, one right and one left-hand bracket, complete with screws for hangers and lag screws for brackets. **Hangers and track** sold separately. When ordering always give thickness of door, exact width of opening and state whether for single or double door.

Per Pair.....$2.70
No. 31 Track, per foot..... .23

TROLLEY TRACK AND TRACK HANGERS

No. 31 Trolley Track is made from 16-gauge steel. The square shape in which it is made gives it great strength. The trolley is entirely inclosed inside of track, making it weather-proof. 4, 6, 8 and 10-foot lengths.

Per Foot .....23c.
Extra Single Brackets for Trolley Track, each .....22c.
Double Brackets, each.....70c.

ANTI-FRICTION BARN DOOR HANGER No. 2

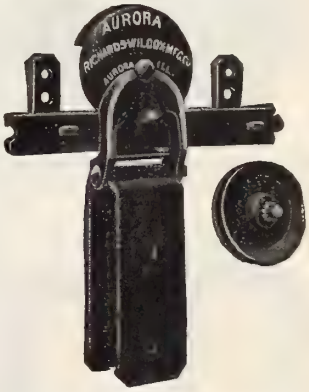
PRICE, PER PAIR, $1.20
1¼ in. Track, per foot, 12c

Has roller bearings, which cause the wheel to roll easily and prevent wear. Frame of open-hearth steel, strength sufficient for heaviest doors; standard tread; can be used on other tracks.

FLEXIBLE HINGE BARN DOOR HANGER

No. 843.

The door can be swung out from the bottom at any angle. The flexible feature allows the top of the door to move away from the building at least one-half an inch. The track is heavy special high-carbon flexible steel, 3-16x1¼ inch, supported by a heavy steel bracket with square shoulder mortised through the track every 17 inches. Weight, dozen pairs, 70 pounds. Weight, track, per 100 feet, 105 pounds. Retail, per pair, **$1.25. Track,** Retail, 12c.

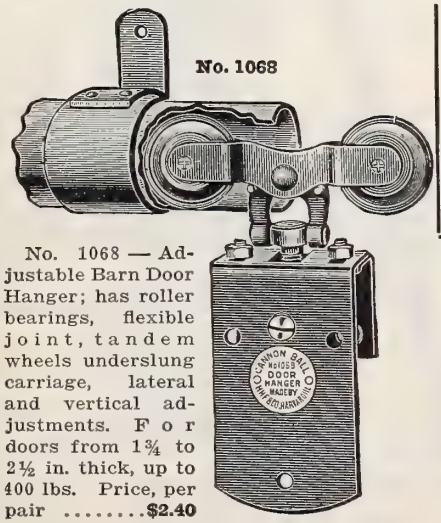


No. 1061—Cannon Ball Jr. Barn Door Hanger, flexible, non-adjusting roller bearing machined wheels, one - piece heavy steel door strap. Price, per pair, **$1.20**

No. 1061

No. 1082—Cannon Ball Jr. Adjustable Barn Door Hanger. Lateral and vertical adjustments, tandem roller bearing machined wheels, heavy one-piece door strap, for doors weighing up to 250 pounds, 2 inches thick. Price, per pair $1.70

No. 1068



No. 1068 — Adjustable Barn Door Hanger; has roller bearings, flexible joint, tandem wheels underslung carriage, lateral and vertical adjustments. For doors from 1¾ to 2½ in. thick, up to 400 lbs. Price, per pair $2.40

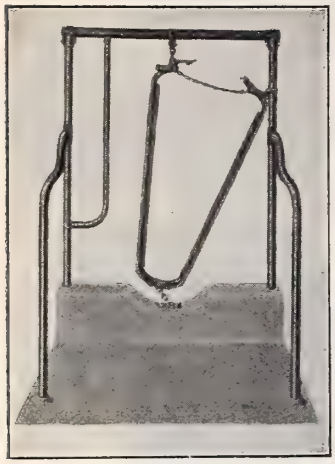
STAY ROLLERS

For use with Barn Door Hangers. Price, each 20c

Track Brackets not included in price of hangers.

Track Brackets, Joint and Center, each $0.17
Track Brackets End, each..... .15
Cannon Ball Track, in lengths 3, 4, 6 or 8 feet, per foot..... .22
Cannon Ball Jr. Track, 3, 4, 6 and 8 feet, per foot..... .15
Jr. Track Brackets, Joint and Center .11
Jr. Track Brackets End..... .10
Lag Screws for Track Brackets, each ..... .03

HUDSON COW STALLS AND STANCHIONS



2A Stall With 193 Stanchion, $10.40

SPECIFICATIONS

Horizontal Top Rail: 1½ inch square tubing. Non-twisting and absolutely rigid.

Partitions: 1⅝ O. D. high carbon steel tubing, triple bend. Extend backward 3 feet from stall post. Leaves ample room for milkers on platform. Other sizes on special order.

Uprights: 1¾ O. D. high carbon steel tubing.

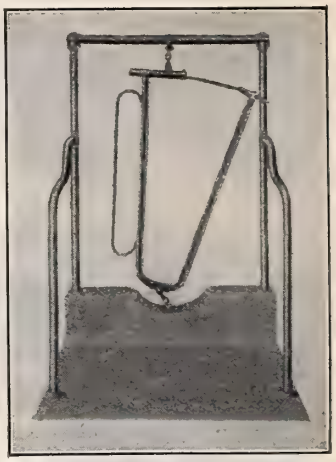
Sure Stop: Rigid, post to top rail type. Can be used on narrow stall without reducing head room; so essential for the cow's comfort. 1 1/16 O. D. high carbon steel tube.

Fittings: Improved dust proof design. Made of malleable.

Anchors: Hudson angle iron anchor base. Anchors post, stanchion, partitions and the entire stall frame into concrete. A continuous anchorage the whole length of stall row across the width of stall at front and rear. Reinforces the concrete and binds the stall frame together down in concrete the same as square top rail binds it above.

Assembly: Hudson labor and money saving method of assembling at factory, made possible only by the Hudson continuous double angle iron anchors, reduces cost of erection and simplifies installation to greatest possible degree. Shipped three stalls set up in unit, ready to place in position on barn floor.

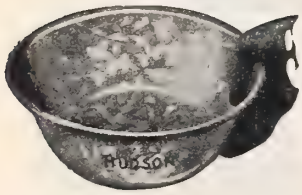
Curb: We recommend high curb, with cut-out for stanchions. Low curb may be used if preferred.



1A Stall With 110S Stanchion, $10.95
1A Stall With 193 Stanchion, $9.45

HUDSON WATER BOWLS

No. 99 STEEL



No. 117 Bowl.....$2.50

No. 99. Hudson New Steel Water Bowl will not break. The bowl has a greater capacity and is easier handled.

Price $3.75

The No. 500 Stall is shipped knocked down and without the Hudson Angle Anchor System.

Upright, Partition and Top Rail: 1⅝ inch O. D. carbon steel tubing.

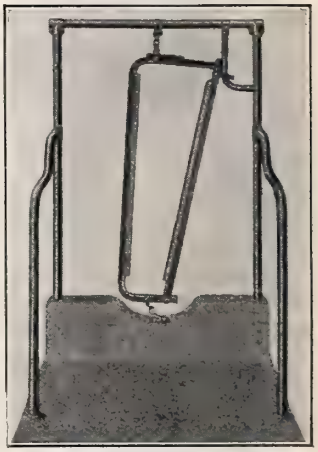
Fittings: Malleable. Tee Couplings two bolt dust-proof type.

Anchors: No. 10B "U" bolt and yoke.

Width: Regular 3 feet 6 inches. Narrower stalls can be furnished when specified.

Weight: Complete with Stanchion 52 lbs.

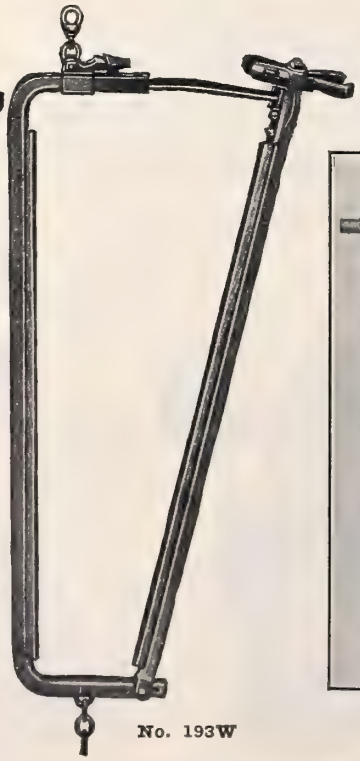
Can be furnished with other Hudson Stanchions at difference in price of stanchions.



No. 500 Stall With No. 181 Stanchion, $8.10

HUDSON STANCHIONS

No. 181



No. 193W

No. 110
No. 110S

HUDSON STANCHION No. 181

Steel U Bar Stanchion with heavy steel fittings; no castings used. Latch made of pressed steel, protected so the cow can not open it. Weight 18 lbs.

Price $2.40

HUDSON STANCHION No. 193

The new features of this popular stanchion make it unusually desirable. Made of high carbon U-Bar with or without wood linings. Patented, quick-acting latch, double lever type. Cow proof. Adjustable neck space. Will stand rough usage and give years of service.

No. 193W, Wood Lined Stanchion. 20¼ lbs. Each $3.25

No. 193, Plain Steeel Stanchion. 18¾ lbs. Each 3.00

HUDSON STANCHION No. 110

This stanchion is offered to dairymen who want the very best. It is the strongest and most easily operated stanchion ever built. High carbon, rust-resisting steel U bar and certified malleable fittings. Selected Hard Wood Linings thoroughly seasoned and polished.

No. 110 ..... $4.00
No. 110S 4.50

NO. H15 HUDSON AUTOMATIC HOG WATERER

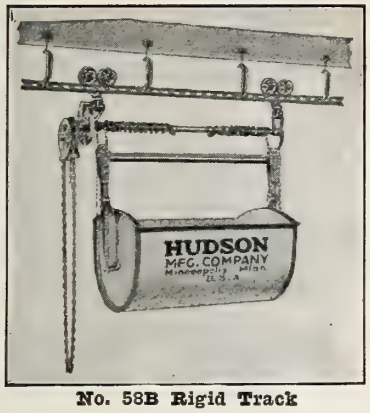
The Hudson Waterer is made so it will attach to a ¾-inch pipe line, water tank or barrel.

No. H15, Wt. each 12 lbs. $1.75

HUDSON FEED AND LITTER CARRIERS

Chain Hoist Litter Carrier

No. 59B



No. 58B Rigid Track

This Hudson Heavy Duty Back Geared Litter Carrier is the result of long years experience in the carrier business. This carrier combines great strength and rapid action. It will carry the heaviest loads with perfect ease. The hoisting chain is of special strength and is of a length to correspond with the shaft on which it winds. Longer chains furnished if specified for special jobs. Carrier is equipped with friction brake. The tub is made of heavy galvanized sheet steel reinforced around the top and ends with 1-inch angle iron closely riveted. The carrier locks at both ends, which increases the life of the carrier. The bale is constructed of 1-inch by 1½-inch channel steel strongly reinforced. The chain shaft is 1 inch cold rolled steel. Full swiveled, tandem trucks which give greater bearing on the track and ease in turning corners.

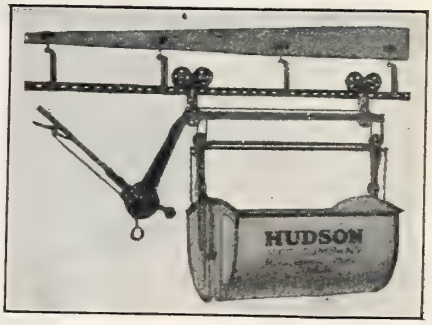
No. 59B—Tub, 42 inches long, 28 inches wide, 24 inches deep, inside measurements, capacity 12 bu. Weight, 182 lbs.

Price **$52.00**

Lever Hoist Litter Carrier

No. 42N

Make a Clean Job Out of a Dirty One



Specifications

Hoist: Ratchet and drum. Very simple. Drops tub to floor in an instant or it can be lowered slowly, as desired. Lifts loaded tub in 10 seconds or less. Tub has regular drop of 8 feet. Extreme leverage and little friction make it quickest and easiest lifting carrier. Hands do not become soiled with manure. Lever is always clean and is used to push carrier out of barn.

Drum: Gray iron, 3¾ inch x 7½ inch diameter.

Lifting Cable: Best crucible steel, ¼ inch diameter.

Lift Cable Pulleys: Gray iron, 4½ inch diameter, grooved and machined to prevent wear on cable.

Lever and Hoist Frame: 2 inch x ¼ inch steel bars, which support the drum and sheaves or cable pulleys.

Tub: Hudson long service construction, channel bail reinforcement.

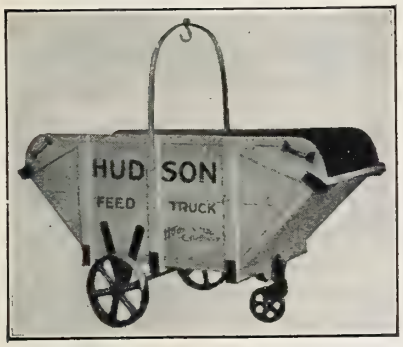
Track Wheels: Roller Bearings, 6-inch diameter.

No. 42N: Capacity 12 bushels. Size of tub 42x28x24 inches. Weight, 205 lbs.

Price **$55.00**

FLOOR FEED TRUCK

No. 141



This is a very convenient and durable truck, built of selected lumber well put together and strongly reinforced.

Load is evenly balanced on wheels, making truck easy to handle. Wheels are located so that truck may be turned in its own length.

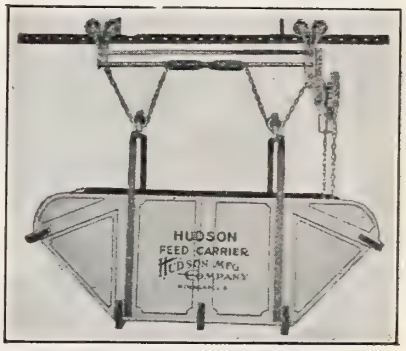
Main wheels are fourteen inches high with a two inch face. Castor wheel is seven inches in diameter. Axle is one inch cold rolled steel shafting. Capacity sixteen bushels.

This truck can be furnished with or without the Hudson Scale Arch.

No. 141 Hudson Floor Feed Truck, galvanized steel bottom. Weight, 210 pounds. **Price, $40.00.**

FEED CARRIER

No. 40C



The Hudson Raising and Lowering Feed Carrier has all the track operating features found in our celebrated line of litter carriers, and is furnished with a tub or a carrier box, that is made of selected materials, and shaped so that the operator can work from either end when feeding.

Equipment can be furnished for the installation of a system of trackage in connection with the litter carrier system.

Capacity, 16 bushels. Weight, 225 pounds. **Price, $48.00.**

HUDSON MILK STOOLS

No. 96S

Hudson Milk Stools have proven extremely popular, not only for milking but for many uses around the home, in garages, filling stations, camps, offices and stores.

Pressed steel top. Comfortable for milking and will not tip. Legs high carbon steel, strongly reinforced and braced; will not twist.

Weight: Approximately four pounds.

Price ..... **$1.00.**

HUDSON TRACK EQUIPMENT

No. 102—Track, per foot	**$0.18**
No. 90C—Track Hangers with short extension and Nailing Plate	**.37**
No. 90B—Hangers, to clear 4 inch, each	**.37**
No. 90F—Hangers, to clear 8 inch, each	**.42**
No. 90L—Hangers, to clear 12 inch, each	**.48**
No. 90P—Hangers, to clear 16 inch, each	**.52**
No. 262—Two Way Switch	**10.00**
No. 263—Three Way Switch	**12.50**

SAFETY BULL STAFF

Contsructed of 1-1/16 inch O. D. extra heavy steel tubing with malleable lock hook. Will not break even when subjected to severe strain.

Can be operated from two places. To hook the nose ring into the staff, pull on the slide ring near the head of staff which will open lock bolt. To release staff from the bull ring, pull on the snap ring in handle of the staff. Latch bolt held in place by strong spring.

Length, 4 feet 9 inches. Weight, 8 pounds. **Price, $3.50.**

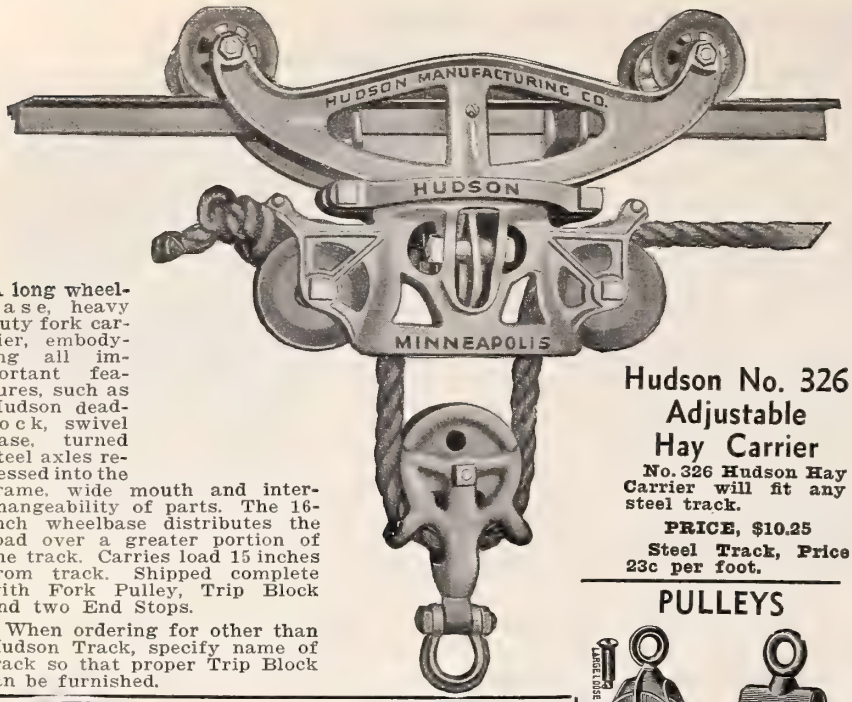
SALT AND MINERAL BOWL

The Hudson Salt and Mineral Feeder is attractive in design, easy to clean and strongly built. The rust-proof cup is made of glazed stoneware; the unique supporting bracket is malleable iron guaranteed against breakage. The rim of the cup extends inward so that the salt will not be wasted. The opening in the cup is 4⅝ inches or just large enough to permit the animal to lick the salt. This small opening eliminates excessive slobbering and drooling, which reduces the caking of the salt. Furnished for either wood or steel stall.

Weight, 10 pounds. Packed one in carton. **Price, $1.50**

HUDSON SANITARY PENS

For Cows, Calves and Bulls. Write for prices, giving sketch and size of Pens needed.



A long wheelbase, heavy duty fork carrier, embodying all important features, such as Hudson deadlock, swivel base, turned steel axles recessed into the frame, wide mouth and interchangeability of parts. The 16-inch wheelbase distributes the load over a greater portion of the track. Carries load 15 inches from track. Shipped complete with Fork Pulley, Trip Block and two End Stops.

When ordering for other than Hudson Track, specify name of track so that proper Trip Block can be furnished.

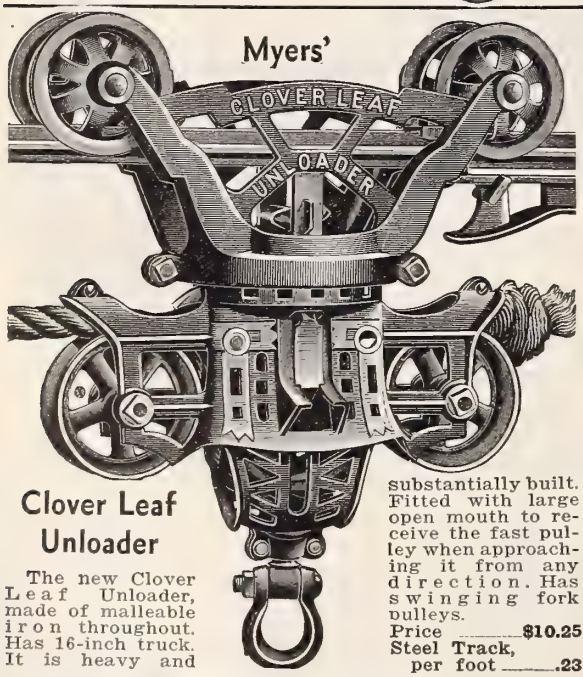
Hudson No. 326 Adjustable Hay Carrier

No. 326 Hudson Hay Carrier will fit any steel track.

PRICE, $10.25

Steel Track, Price 23c per foot.

Myers' Clover Leaf Unloader

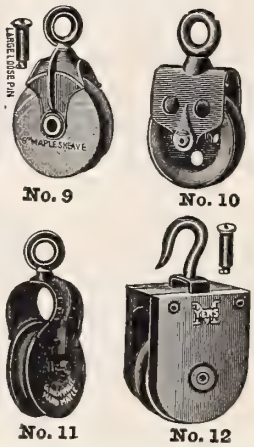


The new Clover Leaf Unloader, made of malleable iron throughout. Has 16-inch truck. It is heavy and substantially built. Fitted with large open mouth to receive the fast pulley when approaching it from any direction. Has swinging fork pulleys.

Price **$10.25**

Steel Track, per foot ..... **.23**

PULLEYS



No. 9 **No. 10**

No. 11 **No. 12**

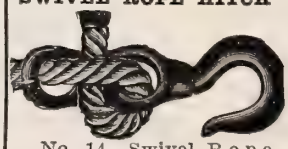
No. 9 Maple Sheave **65c**
No. 10 All Iron **55c**
No. 11 Knot Passing **70c**
No. 12 Wood Frame with Hook **65c**
No. 13 Wood Frame with Eye **65c**

Rafter Brackets

G. & T. No. 4

No. 4—Rafter Bracket, steel, retail, each **9c**

G. & T. No. 14
SWIVEL ROPE HITCH



No. 14—Swivel Rope Hitch. **Retail, each, 40c.**

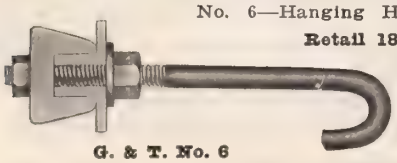
IRON-STRAPPED BLOCKS

Size of Sheave Inches	Diam. Rope Inches	Lgth. Shell Inches	Sgle. Retail Price	Dble. Retail Price
Common Iron Bushed				
3½x1 x½	¾	6	$0.88	$1.60
4¾x1 x½	⅞	7	1.04	1.92
4¾x1⅛x⅝	1	8	1.32	2.28
Patent Roller Bushed				
3½x1 x½	¾	6	1.20	2.28
4¼x1 x½	⅞	7	1.36	2.68
4¾x1⅛x⅝	1	8	1.80	3.32

HUDSON TRACK HANGERS

No. 6—Hanging Hook, steel track.

Retail 18c each.



G. & T. No. 6

MYERS' TRACK HANGERS

Price, 18c.

HARPOON HAY FORK

No. 1 — Double Harpoon Hay Fork, 25-in. tines.

Retail, $2.50.

No. 1½—Double Harpoon Hay Fork, 31-in. tines.

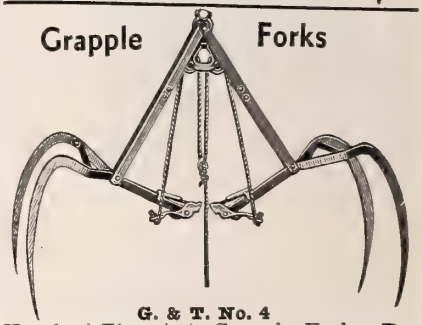
Retail, $2.75.

G. & T. No. 1

No. 2—Nellis Single Harpoon Fork. **Retail, $5.00.**

No. 2

Grapple Forks

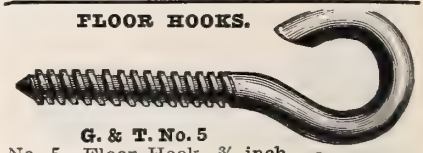


G. & T. No. 4

No. 4—4-Tine Aut. Grapple Fork. **Retail, $10.50.**

No. 6—6-Tine Aut. Grapple Fork. **Retail, $12.00.**

FLOOR HOOKS.



G. & T. No. 5

No. 5—Floor Hook, ¾-inch. **Retail Price, 18c.** each.

No. 5—Floor Hook, ⅝-inch. **Retail Price, 15c.** each.

GRITCO HOIST

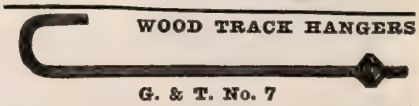
No. 40 — 2 sheaves above, 2 sheaves below; for ½-inch rope; capacity, 1500 lbs. One man can lift 400 lbs. 3-inch sheaves. **Factory list, $4.00. Our Special Price, $3.00.**

No. 34 — 2 sheaves above, 2 sheaves below; for ½ inch to ⅝ inch rope; capacity, 3000 pounds. One man can lift 500 pounds 4-inch sheaves. **Factory list, $6.00. Our Special Price, $4.50.**

No. 28—2 sheaves above, 2 sheaves below; for ¾-inch to ⅞-inch rope; capacity, 4000 pounds. One man can lift 600 pounds 5-inch sheaves. **Factory list, $10.00. Our Special Price, $7.00.**

Rope not included in price.

WOOD TRACK HANGERS



G. & T. No. 7

No. 7—14-in. Hanging Hook, wood track. **18c each.**

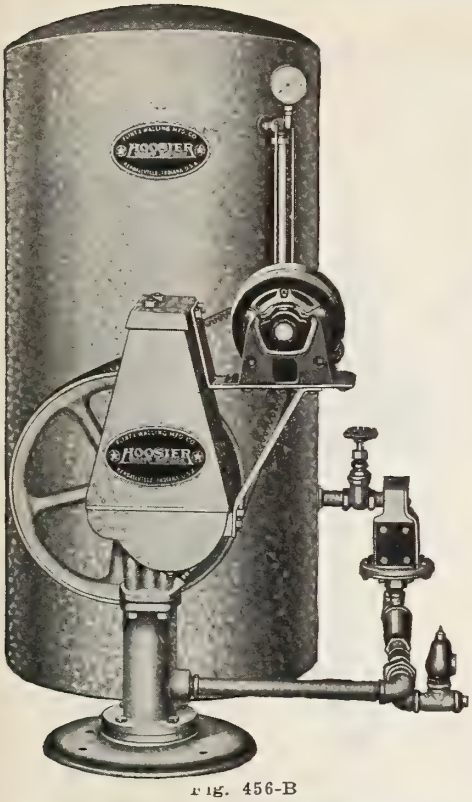


Fig. 456-B

HOOSIER WATER SUPPLY SYSTEM

¼ H. P. Hoosier Water Service—Using Hoosier Galvazink Well Pump Fig. 455

We recommend the use of this installation on wells where depth to water is not more than 50 feet.

The complete installation consists of Fig. 455 Hoosier Galvazink Deep Well Pump complete with V-belt and refrigerator type ¼ H. P. motor, Hoosier Galvazinked water supply tank, Fig. 1351 Automatic Controller, combined pressure and water gauge, gate valve, relief valve, silent check valve, and necessary fittings to connect pump and tank as shown.

Frost-proofing attachment for protection against damage by freezing, is supplied at a small additional charge.

Pumping cylinder and well pipe are not included as part of this installation.

Figure	Motor	Capacity of Tank	Weight	Price
456	¼ H. P.	33 gallons	290	$113.75
456-A	¼ H. P.	66 gallons	370	117.75
456-B	¼ H. P.	100 gallons	415	122.00
Fig. 455 Pump only with Motor				81.50
Frost Proofing Attachment				5.75

½ H. P. Hoosier Water Serice—Using Hoosier Galvazink Deep Well Pump Fig. 460

This Hoosier water service installation, Fig. 461-G, is recommended for use where depth to water is not more than 80 feet. Fig. 460, Hoosier Galvazink Deep Well Pump, completely galvanized and self-lubricating, is supplied with this outfit. This pump is equipped with V-belt.

Figure	Motor	Capacity of Tank	Weight	Price
461-A	½ H. P. A. C.	33 gallons	395	$146.00
461-F	½ H. P. A. C.	66 gallons	475	150.00
461-G	½ H. P. A. C.	100 gallons	520	155.00
Fig. 4611 Pump only with ½ H. P. Motor				114.00
Frost Proofing Attachment				5.75

The Hoosier Horizontal Double Acting Power Pump

A compact high-grade double acting horizontal pump for pumping from shallow wells to pneumatic water supply systems.

Tapped Inlet	Tapped Outlet
No. 1 1¼	1 in.
No. 2 1½	1¼ in.
No. 4 2½	2½ in.

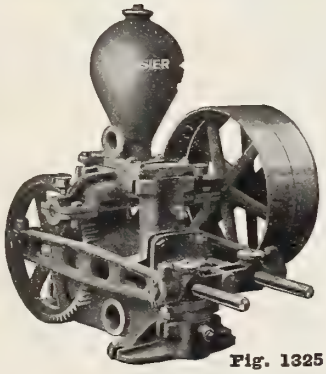
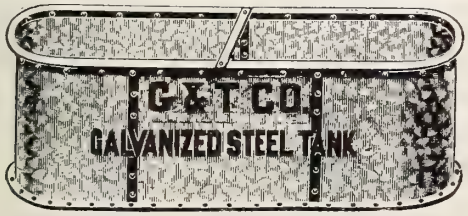


Fig. 1325

Fig.	Cylinder	Capacity	Price
1325 No. 1	2½x4	510 gal.	$50.00
1325 No. 2	3x5	850 gal.	85.00



ROUND-END GALVANIZED TANKS

No.	Width, Ft.	Height, Ft.	Length, Ft.	Capacity, Gals.	Weight, Lbs.	Retail
RE 224	2	2	4	91	74	$10.00
RE 225	2	2	5	117	88	12.00
RE 226	2	2	6	144	102	14.00
RE2525	2½	2	5	145	93	13.25
RE2526	2½	2	6	178	110	15.50
RE2528	2½	2	8	245	141	19.85

ROUND GALVANIZED TANKS

No.	Diam., Ft.	Height, Ft.	Capacity, Gals.	Weight, Lbs.	Retail
R32	3	2	91	69	$12.00
S43	4	3	240	115	19.75
S44	4	4	310	145	24.00

HOOSIER WATER SERVICE INSTALLATION

USING SERIES 200 HOOSIER GALVAZINK TWIN PUMP

For use where vertical suction is not more than 22 ft. Capacity, 300 gallons an hour. May be had with 33, 66 or 100 gal. all-galvanized tank. Complete installation includes Series 200 pump complete with ¼ H. P. motor, V-belt, controller, vacuum chamber, pressure tank, floor base, gate valve, relief valve, combined pressure and water gauge, and fittings for connecting pump and tank, as illustrated.

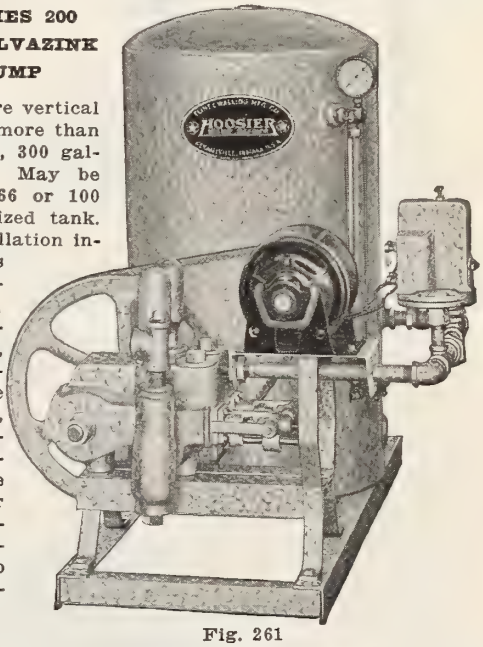


Fig. 261

Figure	Motor	Capacity of Tank	Wt.	Price
231	¼ H. P. A. C.	33 gallons	280	$109.75
261	¼ H. P. A. C.	66 gallons	347	113.50
291	¼ H. P. A. C.	100 gallons	392	118.50

Series 200 Two Cylinders and pump only with A. C. ¼ H. P. motor and controller $88.25

The above outfits have double cylinder pumps as shown in cuts.

Figure	Motor	Capacity of Tank	Wt.	Price
131	1/6 H. P. A. C.	33 gallons	244	$88.75
161	1/6 H. P. A. C.	66 gallons	311	93.00
191	1/6 H. P. A. C.	100 gallons	356	98.50

Series 100 Pump with motor and controller 69.75

These outfits have Series 100 Pumps which are single cylinder.

Hoosier Automatic Pressure Controller

Fig. 1351—Automatic Pressure Controller is used for automatically controlling electric driven power pumps. It can be adjusted for any pressure up to 75 pounds and for a variation of 20 pounds. For domestic purposes, it is best to have it cut in and out at 30 to 50 pounds, respectively.

OUR SPECIAL PRICE $8.00

GALVANIZED PRESSURE TANKS

33-Gallon Galvanized Tank	$11.00
66-Gallon Galvanized Tank	15.00
100-Gallon Galvanized Tank	20.00

HOOSIER WELL PUMPS

Fig. 79041

Fig. 7994

Fig. 73974

Fig. 8553

Fig. 1050

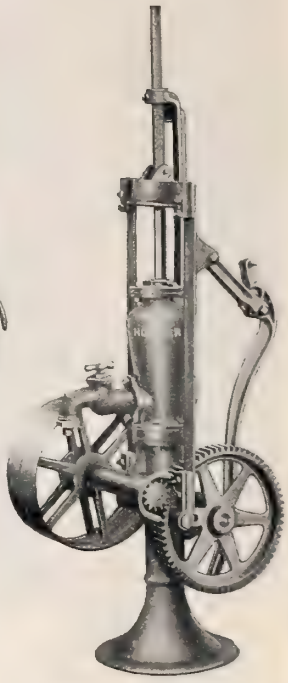


Fig. 1038

Fig. 79041.—Hoosier Open Top Hand Lift Pump, with wrought set length. It has large cast head, swivel bearer top, long handle and adjustable. The Standard or Barrel is made of 1½ inch pipe, and has the anti-freezing feature. 3-inch iron cylinder. **Price, $9.25.**

Fig. 7994.—Hoosier Hand Force Pump, wrought set length, anti-freezing, has swivel bearer top, polished steel piston rod, brass stuffing box, compression cock spout and back inlet. Standard is tapped for pipe just below spout, and with the usual drip hole directly above cylinder makes the pump anti-freezing. Fitted with 3 inch brass lined cylinder. **Price, $14.50.**

Fig. 73974.—Hoosier Windmill Force Pump, wrought set length, anti-freezing; has detachable polished piston rod, brass stuffing box, swivel bearer top, back outlet and detachable compression cock spout. The bearer top has removable guide bushing to prevent pump rod wearing directly on bearer guide. 2½ inch Brass Lined Cylinder, 6 inch stroke, weighs 81 pounds. **Price, $19.25.**

Fig. 8553.—Hoosier Windmill Underground Force Pump, double acting, with wrought set length, anti-freezing. The pump has brass upper cylinder, positive three-way cock with union connection. Has adjustable platform base, fitted with 1 inch goose neck spout, and 1 inch three-way discharge. By removing upper cylinder and cap, the plunger valve can be withdrawn without disturbing the pump. Suitable for well from 25 to 125 feet in depth. Without Cylinder, **Price, $17.50.**

Fig. 1050.—Hoosier Combination Set Length Pump and Jack. For hand, windmill or belt power. For shallow or deep wells. In this pump you get a true alignment of the jack and pump, with no side strain or uneven wear on the parts. Has cast gears and strong pitmans. Tight and loose pulleys. By removing upper cylinder and cap the plunger valve can be withdrawn without disturbing the pump. Can be used with 1¼, 1½, 2, 2½ or 3-inch pipe. **Price, $44.00.**

Fig. 1038.—Hoosier Combination Pump Standard and Jack. Back geared 5 to 1, is designed to be operated by hand, windmill or belt power, for shallow or deep wells. This combined pump and jack is compact, strong and easy to install. Built in two sections, between which is a detachable flange, the upper section being the large air chamber with flanged top to which is bolted the flange bearer, making a firm connection; the lower section or barrel and main frame of the jack are of one-piece construction. This gives a true and permanent alignment of the jack and pump. Equipped with cast gears. The pinion shaft is extra long. Pitmans are made of heavy angle steel. The pitmans, gears, pinions and all wearing parts have No-Oil-Em Bearings. Has tight and loose pulleys. Adjustable stroke, 6 to 10 inches. One piece 1 1-16 inch piston rod, brass covered; brass stuffing box; compression cock spout with hose connection and back outlet. The jack has sufficient clearance above floor to admit of pulley being used as large as 30 inches. Suitable for wells from 25 to 200 feet. Weighs 190 pounds. **Price, $37.00.**

Fig. 8584.—Hoosier Easy-Fix Windmill Force Pump. Single Acting, with detachable cast standard, for heavy service. Has positive Three Way discharge and brass hand wheel screw for regulating the three way distributing valve. Underground discharge elbow as union connection, Brass Stuffing Box and Brass Covered Piston Rod, fitted with 1½ inch pipe air barrel.

The stuffing box is set in extra cap or flange which screws into the bottom casting. By removing stuffing box cap the plunger may be withdrawn without disconnecting the pump. Bearer is provided with removable pump rod guide bushing to prevent wear directly on the bearer guide.

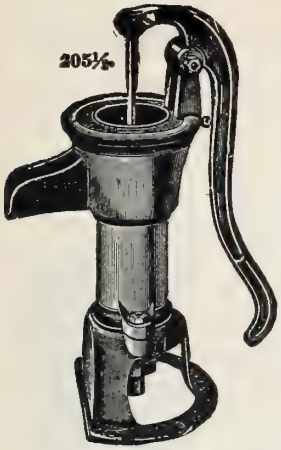
The bottom flange is interchangeable for the size cylinder or pipe to be used. Price of pump without cylinder, **$20.80.**

ADDITIONAL FOR FITTING PUMPS

We give below a table of the additional charge for fitting, and the amount stated in table is to be added to the price of the pump selected. In fitting pumps we use galvanized pipe and galvanized pump rod and a strainer foot valve. For wells 26 feet deep or less we leave the cylinder 5 feet below platform. For wells deeper than 26 feet we place the cylinder close to the bottom of the well.

Prices Subject to Change Without Notice — **We Use an Extra Good Foot Valve**

Depth of Well	With 1¼-in. Pipe for 2½-in. and 3-in. Cylinder Pumps	Depth of Well	With 1¼-in. Pipe for 2½-in. and 3-in. Cylinder Pumps	Depth of Well	With 1¼-in. Pipe for 2½-in. and 3-in. Cylinder Pumps	Depth of Well	With 1¼-in. Pipe for 2½-in. and 3-in. Cylinder Pumps
10 feet	$3.55	20 feet	$5.75	32 feet	$9.50	44 feet	$12.75
12 feet	4.00	22 feet	6.20	34 feet	10.00	46 feet	13.30
14 feet	4.40	24 feet	7.30	36 feet	10.60	48 feet	13.85
16 feet	4.85	26 feet	7.80	38 feet	11.10	50 feet	14.40
18 feet	5.30	28 feet	8.36	40 feet	11.70	Each additional foot	.27
		30 feet	8.90	42 feet	12.25		



CLOSED TOP PITCHER SPOUT PUMP

SIZES AND PRICES

No. 2—Diameter of Cylinder, 3 in.; Suction, 1¼ in. Polished Iron Cylinder. Retail, **$2.00.**

No. 3—Diameter of Cylinder, 3½ in.; Suction, 1¼ in. Polished Iron Cylinder. Retail, **$2.25.**

For 1½-in. Couplings add 15c.

PITCHER PUMP LEATHERS.

No. 2—Valve and flat Plunger Leathers, each, **16c.**

No. 3—Valve and flat Plunger Leathers, each, **20c.**

No. 2—3-inch Leather Cups, **19c.**

No. 3—3½-inch Leather Cups, **25c.**

PUMP CYLINDERS

	Iron Our Price	Brass Lined Our Price
2½x14	....	$5.10
3x10	$2.25	5.25
3x12	....	5.35
3x14	....	5.85
3½x12	....	6.25
3½x14	....	7.50
4x12	4.50	8.75

Artesian Well Cylinder—No. 9171—Deep Well Brass Cylinder 1⅝ for 1-in. pipe to be used in connection with 1355 and similar outfits. 6-in. Stroke, **$4.00.**

2½ and 3-in. cylinders take 1¼-in. pipe; 3½ in. cylinders take 1½-in. pipe; 4-in. cylinders take 2-in. pipe.

BRASS JACKET DRIVE WELL POINTS

No.	Diameter of Pipe.	Length.	No. 60 Gauge, List Price, Per Doz.	Retail Price Each.
90	1¼	24 in.	$36.00	$2.00
94	1¼	30 in.	46.00	2.50
98	1¼	36 in.	56.00	3.00
102	1¼	48 in.	76.00	4.00
136	1½	24 in.	48.00	2.50
140	1½	30 in.	60.00	3.50
144	1½	36 in.	72.00	4.00
148	1½	48 in.	96.00	5.00

Malleable Drive Caps, Hexagon-shaped, for 1¼-in. Pipe, **50c.**
Malleable Drive Caps, Hexagon-shaped, for 1½-in. Pipe, **50c.**

IXL GALVANIZED STEEL CHAIN PUMP

Being made of No. 24 gauge galvanized steel, this pump will not rot, rust nor accumulate filth like pumps of less desirable construction, and it makes the water clear and pure. It is anti-freezing, as the reservoir piece has a small hole, which allows the water to run out. This style of pump is practical for use in wells as deep as 40 feet. The term curb means the complete upper part of pump with fixtures.

PRICES.

I X L Curb	$ 6.50
Gem Curb	5.50
Tubing, per foot	.15
Coupling	.50
Rubber Buckets	.10
Iron Platform	9.00
Chain, per lb	.12

DIRECTIONS FOR FITTING UP CHAIN PUMPS

1. Use one foot more tubing than depth of well.
2. Multiply length of tubing by two and add 3 feet 6 inches to get proper length of chain.
3. Rubber buckets should be placed 6 or 7 feet apart.
4. See that tubing is held secure—by tubing brace at bot- of curb.

GALVANIZED PUMP RODS AND COUPLINGS

⅜-inch Round Galvanized Pump Rod in 20-foot lengths, not threaded, per foot, **5c.**

7-16 in., **6c.**

Threaded with coupling, add 1c per foot; cut lengths, add 3c.

Galvanized Pump Rod Couplings for ⅜ or 7-16 in. rod, **10c.** each.

GOULD'S UNIVERSAL HOUSE FORCE PUMP

Fig. 1726

The **Universal House Force Pump** is an easy working, compact and substantial pump. It is well adapted to house pumping, furnishing water either at the spout or through opening to storage tank. Can be used outdoors over wells and cisterns. Pump should not be placed over 22 feet above the water. Has 2½-inch cylinder and 4-inch stroke. Tapped for 1¼-inch pipe.

No. 2, Fig. 1725, plain spout **$7.50**

No. 2, Fig. 1726, Cock Spout **$9.50**

Fig. 1725

GALVANIZED PIPE FITTINGS.

	½	¾	1	1¼	1½	2
Elbows	$ .12	$ .20	$ .22	$ .36	$ .44	$ .76
Tees	.17	.26	.28	.52	.64	1.02
Street Elbows	.12	.18	.22	.32	.44	.72
45-Degree Elbows	.12	.18	.20	.30	.40	.68
Cross	.20	.32	.33	.56	.70	1.18
Bushings	.10	.10	.12	.13	.15	.20
Lock Nuts	.05	.05	.06	.10	.12	.18
Caps	.06	.10	.12	.20	.28	.42
Reducers	.10	.13	.14	.20	.30	.50
Couplings	.10	.14	.16	.28	.34	.60
Galv. Unions	.36	.42	.52	.74	.94	1.42

GALVANIZED FOOT VALVES

¾-in.	$1.00
1-in.	1.00
1¼-in.	1.25
1½-in.	1.80

Hoosier Horizontal Double Acting Hand Pump For Shallow Wells

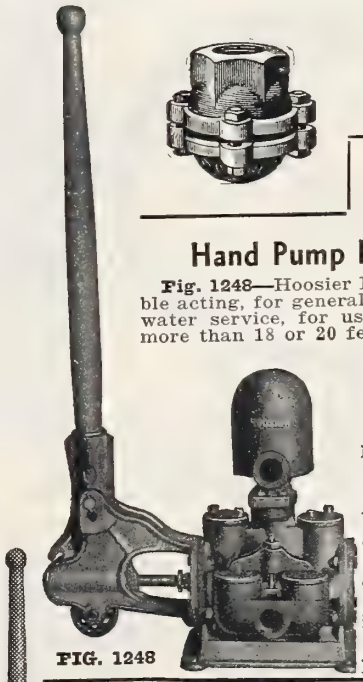


FIG. 1248

Fig. 1248—Hoosier Horizontal Hand Pump, double acting, for general purpose work or pneumatic water service, for use where the suction is not more than 18 or 20 feet. Pump is equipped with large air chamber and rack head, insuring ease of operation. It has 3x5" Brass Lined cylinder and a 3 to 5" adjustable stroke. The pump is tested to 100 pounds pressure. All valve caps, including suction cap, are on the outside and easily accessible. The body is detachable from the base of the pump and in case of breakage of the base it is unnecessary to purchase an entire new pump.

It is fitted with an intake air valve and it can pump both air and water at the same time.

Price of Pump.....**$19.25.**

HOOSIER TANK PUMP

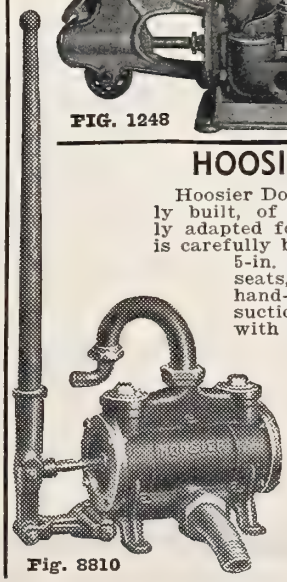


Fig. 8810

Hoosier Double Acting Tank Pumps are strongly built, of very large capacity, and especially adapted for threshermen's use. The cylinder is carefully bored and polished. The cylinder has 5-in. stroke, the valves have brass valve seats, and the valves are accessible through hand-holes by removing the plugs. The suction and discharge have 2-in. openings with swivel connections. Furnished with suction conection for 2-in. pipe or 2-in. hose, and the discharge connection for 2-in. pipe or 1-in. hose.

As the pump heads are reversible, the handle can be attached to either end of the pump.

By opening the upper and lower drainage plug, water can be drawn off the pump to prevent freezing.

Price .....**$15.50.**

BALTIMORE WOOD PUMPS

PRICES OF PUMPS FITTED COMPLETE.
With and Without Porcelain Cylinder.

Depth of Well.	6x6 Unlined. Price.	6x6 Lined. Price.	7x7 Lined. Price.
10 feet	$11.00	$13.40	$15.50
12 feet	11.50	14.00	16.10
14 feet	12.10	14.60	16.50
16 feet	13.60	15.15	17.30
18 feet	14.25	16.65	18.80
20 feet	14.75	17.25	19.40
23 feet	.....	18.55	20.90
25 feet	.....	19.40	22.05
28 feet	.....	21.30	23.45
30 feet	.....	22.75	26.04
33 feet	.....	24.70	28.15
35 feet	.....	27.55	31.25
40 feet	.....	31.05	34.95
45 feet	.....	35.15	39.30
50 feet	.....	37.75	42.20

BALTIMORE WOOD PUMPS

NOT FITTED.
"No. 0."—STOCK PUMPS. 7x7 Inches, 4-inch Bore.

	Porc. Lined. Price.
6 feet long	$12.00
7 feet long	13.00
8 feet long	14.00
10 feet long	16.00
6 feet long, reamed for 6x6 extension pipe, unlined	9.75

"No. 1"—THE FAVORITE HOUSE PUMPS

6x6 in., 3½-in. Bore.

	Porc. Lined Price.
6 feet long	$9.75
7 feet long	10.50
8 feet long	11.25
10 feet long	13.25
12 feet long	14.75
6 feet long, reamed for 6x6 extension pipe, unlined	7.75

PUMP FOR DRIVE WELLS

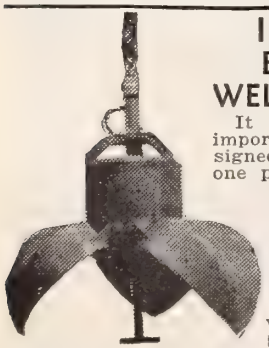
To Fit 1¼, 1½-inch Iron Pipe.

Special No. 1 House, 5 feet wood, Porcelain-lined Cylinder, entire length 6 feet.

PRICE $9.50

TUBING AND MISCELLANEOUS

	Retail Price.
4x4, 12 feet long and under, per foot	$0.27
4x4, over 12 feet, per foot	.29
6x6 Extension Tubing, per foot	.70
Cylinder Block, Porcelain Lined, 3 feet long	4.10
Cylinder Block, Porcelain Lined, 4 feet long	4.80
Cylinder Block, Porcelain Lined, 5 feet long	5.50
Cylinder Block, Porcelain Lined, 6 feet long	6.20
Cylinder Block, Porcelain Lined, 7 feet long	6.90
Cylinder Block, Porcelain Lined, 8 feet long	7.60
6x6 Couplings for 4x4 Tubing	.80
Buckets, 5-in., each, No. 00, Price $1.50; 4-in., each, No. 0	1.25
Buckets, 3½-in., No. 1, each, Price, $1.00; 3-in., No. 2, each	.80
Handle, any size, each, Price, 40c.; Handle Links or Knuckles	.35
Check Valves, each	.12
Iron Connection for Drive Wells, fitted for 1¼-in. and 1½-in. iron pipe	1.50
Extra Iron Spout, with loose collar	.50
Extra Wood Spouts, each, Price, 25c.; Extra Spout Braces, each	.30
Extra Bands, each	.10
Extra Ears or Brackets, Nos. 35 and 36, pair	.50
1-in. Rod Couplings, pair	.60
Plunger Rod, per foot	.04



IMPROVED BESTWAY WELL CLEANER

It makes this very important job easy. Designed to operate by one person from platform.

Made very strong and durable; will last indefiniately; the price is so small and the results so effective that several jobs will more than pay for it.

Keep your water pure and healthful; clean the well often with a Bestway. **$15.00**

OCTAGON WOOD PUMP RODS

Wood Pump Rod for artesian wells is made of selected material and fitted with galvanized forged couplings.

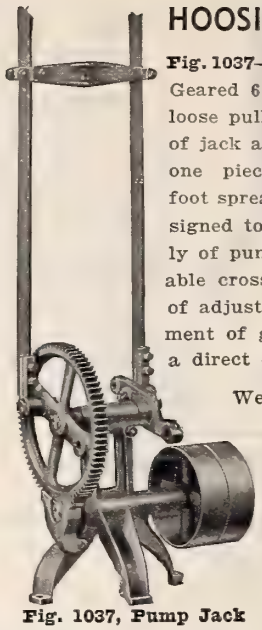
Size of Rod 1⅛ in.

Size of Artesian Well Cylinder 1⅜ in. to 2¼ in.

Price per foot 25c

The above prices are for rod in standard lengths or from 16 to 20 feet, couplings included.

WOOD PUMP ROD.



HOOSIER PUMP JACK

Fig. 1037—Hoosier Pump Jack. Geared 6 to 1, with tight and loose pulley. The main frame of jack and tripod base are of one piece construction. The foot spread is extra wide. Designed to operate independently of pump standard. Adjustable cross head with wide range of adjustments. The arrangement of gear and pinion gives a direct even lift.

Weight 95 pounds.

Price, $16.75

Fig. 1037, Pump Jack

Figure 1031 — Hoosier Pump Jack, with tight and loose pulleys for gasoline engine or electric motor, with motor speed reduced. The drive shaft may be driven 200 R. P. M.; as a rule, however, we recommend 170 R. P. M., or about 34 strokes per minute.

The pitmans are made of hard wood, and with their wide range or adjustment the jack can be attached to a windmill-head pump without disturbing the pump or pipe connections.

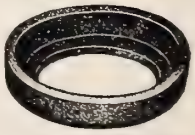
This jack can be used on the wall, floor or ceiling.

Will operate a 3-inch cylinder, 125 foot lift on 8-inch stroke.

Price $10.00

PUMP LEATHERS

Our pump leathers are cut from the best grade of selected Oak Tan leather. We offer only such leathers as we can recommend as being absolutely high grade.



Plunger Leather Crimped

Suction Valve Leather

CRIMPED PLUNGER OR CUP LEATHERS

	Each		Each
1 inch	$0.08	3¼ inch	$0.22
1¼ inch	.08	3½ inch	.25
1½ inch	.10	3¾ inch	.31
1¾ inch	.10	4 inch	.35
2 inch	.11	4¼ inch	.38
2¼ inch	.12	4½ inch	.40
2½ inch	.15	4¾ inch	.45
2¾ inch	.18	5 inch	.50
3 inch	.19		

PLUNGER AND LOWER VALVE LEATHERS

O'tside Cylinder Diam.	Diam	Each	O'tside Cylinder Diam.	Diam	Each
2 in.	1½ in.	$0.10	3½ in.	3 in.	$0.16
2¼ in.	1¾ in.	.10	3¾ in.	3¼ in.	.17
2½ in.	2 in.	.11	4 in.	3½ in.	.20
2¾ in.	2¼ in.	.12	4½ in.	3¾ in.	.25
3 in.	2½ in.	.13	5 in.	4 in.	.30
3¼ in.	2¾ in.	.15			

SAFETY FIRST TILLEY LADDERS

We Carry a Complete Line of Ladders for Every Purpose

SPRING LOCK EXTENSION LADDER (SPRUCE)

FOR PAINTERS, TINSMITHS, CARPENTERS, MILLS, FARMING AND GENERAL USE

Side Rails of thoroughly air-dried selected material. Rungs are selected Ash and Hickory with minimum diameter of 1 3/16 inches. All equipped with rope hoist and two improved Automatic Spring Locks of soft malleable and cold rolled steel, securely bolted to the side rails.

This is the universal favorite on account of its quick positive action.

20 ft.—Two 10-ft. Sections, Extends to 17 ft. **$8.85**
24 ft.—Two 12-ft. Sections, Extends to 21 ft. **$10.60**
28 ft.—Two 14-ft. Sections, Extends to 25 ft. **$12.40**
30 ft.—Two 15-ft. Sections, Extends to 27 ft. **$13.25**
32 ft.—Two 16-ft. Sections, Extends to 29 ft. **$14.25**
36 ft.—Two 18-ft. Sections, Extends to 33 ft. **$16.80**
40 ft.—Two 20-ft. Sections, Extends to 36 ft. **$18.75**
44 ft.—Two 22-ft. Sections, Extends to 40 ft. **$21.75**
48 ft.—Two 24-ft. Sections, Extends to 44 ft. **$29.60**
52 ft.—Two 26-ft. Sections, Extends to 47 ft. **$32.10**
60 ft.—Two 30-ft. Sections, Extends to 55 ft. **$53.50**

LIBERTY EXTENSION LADDER

(HEMLOCK)

This is a good extension ladder for general purposes.

Equipped with rope hoist, malleable locks securely bolted to side. Side rails of air-dried select material.

Regularly made with spread bottom.

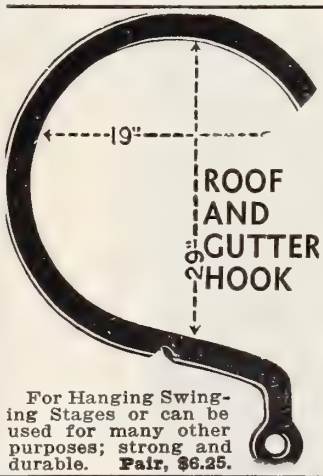
20 ft.—Two 10-ft. Sections, Extends to 17 ft. **$8.35**
24 ft.—Two 12-ft. Sections, Extends to 21 ft. **$10.00**
28 ft.—Two 14-ft. Sections, Extends to 25 ft. **$11.75**
30 ft.—Two 15-ft. Sections, Extends to 27 ft. **$12.50**
32 ft.—Two 16-ft. Sections, Extends to 29 ft. **$13.40**
36 ft.—Two 18-ft. Sections, Extends to 33 ft. **$15.30**
40 ft.—Two 20-ft. Sections, Extends to 36 ft. **$17.00**
44 ft.—Two 32-ft. Sections, Extends to 40 ft. **$18.75**

CLEVELAND SAFETY LADDER JACK

Per Pair $5.00

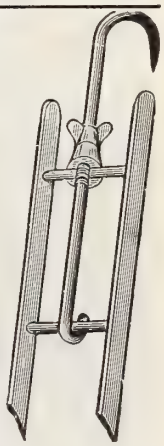
SINGLE LADDERS

10, 12, 14, 16 foot **28c** per foot
18, 20, 22 foot **29c** per foot
24 and 26 foot **32c** per foot
28 and 30 foot **40c** per foot



ROOF AND GUTTER HOOK

For Hanging Swinging Stages or can be used for many other purposes; strong and durable. **Pair, $6.25.**



ROOF HOOK

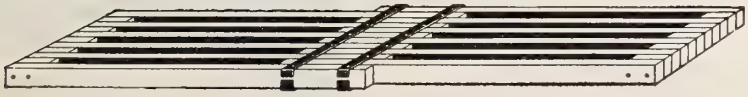
Price $1.15

SCAFFOLD

Our Painters' Scaffolds are made from seasoned and selected stock.

Slats are securely fastened on the top of the rungs, making a smooth platform. Our scaffolds are light in weight, but very strong and durable. Without floor, 10 ft. to 16 ft., **55c**; with floor, 10 ft. to 16 ft., **78c**; without floor, 18 ft. to 22 ft., **63c**; with floor, 18 ft. to 22 ft., **88c.**

EXTENSION PLANKS

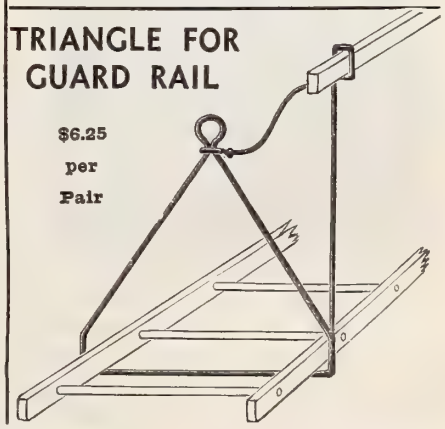


These adjustable Planks are used by Painters and Decorators and are now a part of their equipment.

6 ft., extends to 10 ft., two sections **$5.00**
8 ft., extends to 14 ft., three sections **6.75**
10 ft., extends to 18 ft., three sections **8.15**

TRIANGLE FOR GUARD RAIL

$6.25 per Pair



ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

TILLEY TROJAN

For all uses, light, strong and stiff. A combination cold-rolled steel knee, tie and angular brace under end of each step, which forms a positive tie support and angular brace. Pail rests on all Trojan Ladders.

The favorite with painters, janitors and for general household duty.

4 ft.	$2.25	8 ft.	$4.50
5 ft.	2.85	10 ft.	5.65
6 ft.	3.40	12 ft.	6.75

NATIONAL

BALTIMORE STEP LADDER

Full Rodded, Steel Lock with Handle.

4 ft.	$1.35	8 ft.	$2.70
5 ft.	1.70	10 ft.	3.40
6 ft.	2.00		

TILLEY MOHAWK

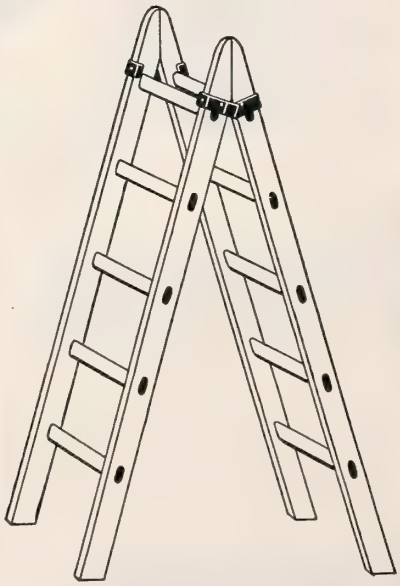
Made from selected material.

Full rodded and trussed.

Equipped with steel top hinges and side hinges as shown above.

4 ft.	$1.70	6 ft.	2.50
5 ft.	2.10	8 ft.	3.35

TILLEY PAINTERS' TRESTLES



STRONG AND LIGHT

Made in all sizes, from 6 feet to 12 feet.

6-ft.	$4.80
8-ft.	6.40
10-ft.	8.00
12-ft.	9.60

TILLEY ELECTRICIAN

A combination Step Ladder and Trestle. Just the ladder for electricians, plumbers and mill work. A combination cold-rolled steel knee, tie and angular brace under end of each step, which forms a positive tie support and angular brace.

This ladder is built to give real service. It has malleable iron top hinges. The rounds in the back are 1⅛ inch diameter.

4 ft.	$2.90	12 ft.	$8.70
5 ft.	3.65	14 ft.	12.25
6 ft.	4.35	16 ft.	14.00
8 ft.	5.80	18 ft.	18.00
10 ft.	7.25	20 ft.	20.00

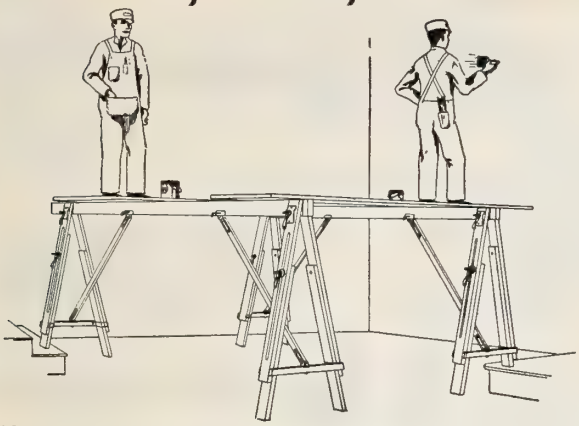
TILLEY DECORATORS

This ladder is for paper hangers, painters and interior decorators.

Made of Spruce material, approved specifications.

4 ft.	$2.00	10 ft.	$5.00
5 ft.	2.50	12 ft.	6.00
6 ft.	3.00	14 ft.	8.05
8 ft.	4.00	16 ft.	9.20

ADJUSTABLE JACKS



Above illustration shows four Adjustable Scaffold Jacks ready for use. It requires Four Jacks to properly scaffold a room, on which Planks can be laid, thus giving a safe platform to work on.

ADJUSTABLE SCAFFOLD JACKS

	Each		Each
No. 6—4 ft. extends to 6	**$5.60**	No. 15—8 ft. ext. to 12½	**$9.50**
No. 7—5 ft. extends to 8	**6.25**	No. 16—10 ft. ext. to 16	**13.75**
No. 8—6 ft. ext. to 9½	**7.00**	No. 17—12 ft. ext. to 20	**16.25**

Adjustable Scaffold Jack Iron Brackets, set of four **2.00**

TILLEY WINDOW CLEANERS

A very convenient ladder for wndow cleaning purposes or where a ladder has to be carried from one place to another.

It is made in sections, which makes it convenient to handle.

All sections are fitted into each other.

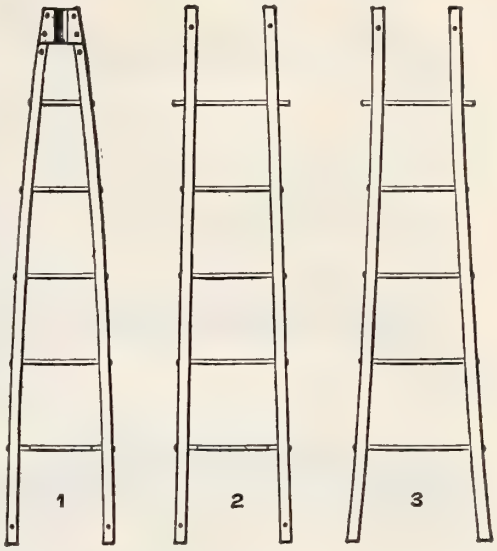
These ladders are made in 6-foot lengths.

Top Section **$2.50**

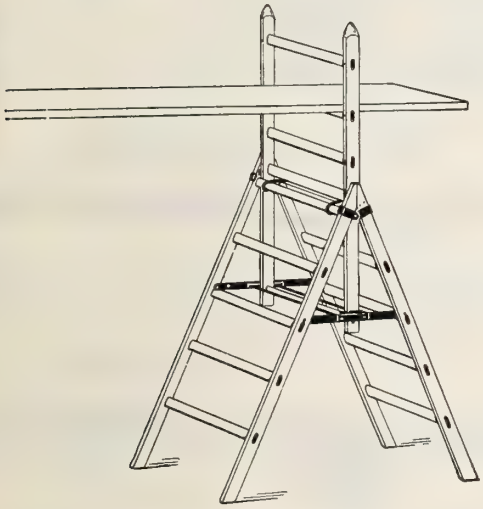
No. 2 Middle **$2.25**

No. 3 Bottom **$2.25**

6 ft. 3 in.



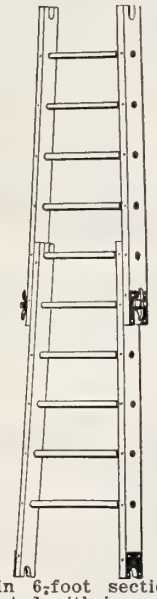
EXTENSION TRESTLES



EXTENSION TRESTLES

6 ft. extending to 10 ft., each	**$10.00**
8 ft. extending to 14 ft., each	**12.50**
10 ft. extending to 18 ft., each	**15.00**
12 ft. extending to 22 ft., each	**17.50**
14 ft. extending to 26 ft., each	**20.00**
16 ft. extending to 30 ft., each	**22.50**

TILLEY SECTIONAL LADDERS



Made in 6-foot sections, each end protected with iron plates and equipped with large bolts with thumb nuts, making them safe and durable. Hickory rungs. Sections 6 feet 5 inches.
$3.25

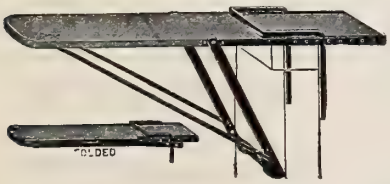
PLATFORM STEP LADDERS

No. 6—4 feet to platform	**$9.50**
No. 8—6 feet to platform	**12.00**
No. 10—8 feet to platform	**14.50**
No. 12—10 feet to platform	**17.00**

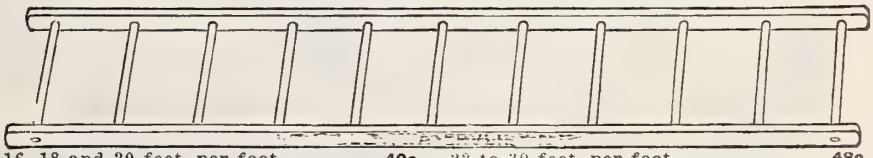
WINDOW BRACKET

Made in Two Sizes

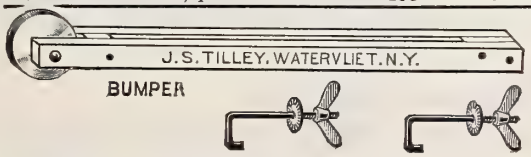
No. 1—4 feet 4 inches	**$5.65**
No. 2—6 feet	**7.00**



MASON OR BRICKLAYERS' LADDER



16, 18 and 20 feet, per foot **40c** 22 to 30 feet, per foot **48c**



Bumpers for stages, per pair, less hooks **$2.00**

Bumper hooks with nuts and washers, per set of 4 **$2.00**

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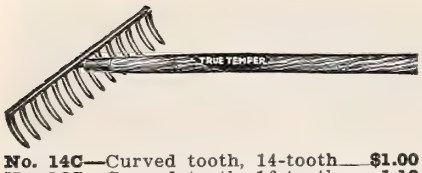
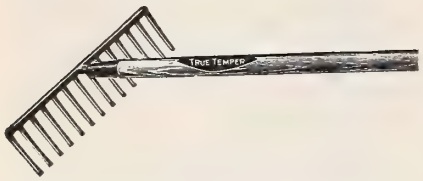
STEEL RAKES



No. 14C—Curved tooth, 14-tooth **$1.00**
No. 16C—Curved tooth, 16-tooth **1.10**
No. 18C—Curved tooth, 18-tooth **1.25**

STRAIGHT TOOTH RAKE

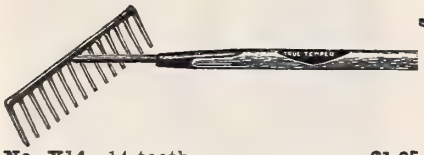


No. S12X—Straight tooth, 12-tooth ..... **$.95**
No. S14X—Straight tooth, 14-tooth **1.00**
No. S16X—Straight tooth, 16-tooth **1.10**
No. S18X—Straight tooth, 18-tooth **1.25**
No. 12SZ—12-tooth, single shank ..... **.60**
No. 14SZ—14-tooth, single shank ..... **.65**
No. 16SZ—16-tooth, single shank ..... **.70**

PRIZE BOW RAKE

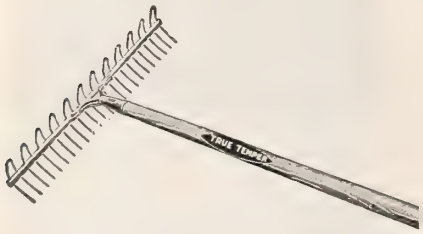
No. B12—Prize bow-braced rake, solid steel, 12 teeth. Price, each **$1.15**
No. B14—Prize bow-braced rake, solid steel, 14 teeth. Price, each **$1.25**
No. B16—Solid bow-braced rake, solid steel, 16 teeth. Price, each **$1.35**

STEEL ROAD RAKES



No. X14—14-tooth **$1.65**
No. X16—16-tooth **$1.70**

WIRE RAKE



No. 124R—24-tooth, each **$1.00**

24-TOOTH RAKE

24-tooth, 3 wire bows **70c**

Extra teeth, each **3c**

STEEL BRUME RAKE

No. FBR22—Light & very flexible **$1.00**
No. FBR24—Straight design **1.00**

STEEL ASPHALT RAKES

No. 1014—14-tooth, strap ferrule **$2.50**

HAY FORKS

No. 26—2-tine, 6-foot handle **$1.45**
No. 026—2-tine, 6-foot handle **1.60**
No. 36—3-tine, 6-foot handle **1.55**
No. 036—3-tine, 6-foot handle **1.80**
No. 037—3-tine, 7-foot handle **2.25**
No. 038—3-tine, 8-foot handle **2.50**

4-TINE FORK

No. 044½X—4-tine, 4½-ft. handle **$1.50**
No. 054½X—5-tine, long handle **1.65**
No. 064½X—6-tine, long handle **1.90**

BATCHELOR FORK

No. 044—4-tine, 4-foot handle **$1.65**

D-HANDLE MANURE FORKS

No. 04D—D Handle, 4-tine, regular **$1.65**
No. 05D—D Handle, 5-tine, regular **1.85**
No. 06D—D Handle, 6-tine, regular **2.10**
No. 151—D Handle, 4-tine, heavy **2.50**
No. 153—D Handle, 4-tine, ex. hvy. **2.70**
No. 157—D Hande, 6-tine, ex. hvy. **3.50**

SPADING FORK

No. OHW—4-tine angular back **$1.95**
No. OLD—Medium weight **1.50**
No. JOW—Jumbo, 4 polished tines **2.30**
No. B4D—Boys' 4-tine, price **1.05**

ENSILAGE FORKS

No. 508—8 16-in. tines, iron D handle, each **$2.70**
No. 510—10 17-in. tines, iron D handle, each **$3.20**

No. 100S—10-tine, D handle, stone fork, each **$3.25**
No. 102S—12-tine, D handle, stone fork, each **$3.75**
No. 910—10-tine, scoop shape, malleable D handle, strap ferrule, each **$2.95**
No. 912—12-tine, scoop shape malleable D handle, strap ferrule, each **$3.65**
No. 712—Coke Forks, 12-tine, D handle, strap ferrule, each **$3.65**

MANURE HOOKS

No. M40—4 oval tines, 5-ft. handle **$1.40**
No. M60—6 oval tines, 5-ft. handle **1.65**

No. 1P—Sharp point hoe **$0.60**
No. 2P—2-point hoe ..... **.65**
No. 4P—4-point hoe and rake **1.15**

CRESCENT CULTIVATOR HOE

No. 67—7-inch steel blade, 4⅓ foot handle **$1.25**

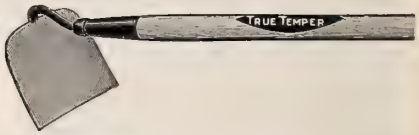
POTATO HOOKS

No. 4BOH—Heavy broad oval tines, bent head, 4½-foot handle **$1.30**
No. 5BOH—5 tines, heavy broad oval tines, bent head, 4½-foot handle **$1.65**

DOCK DIGGERS

No. 39D—Square point **$1.65**
No. 39A—V point **1.70**

PLANTER HOES



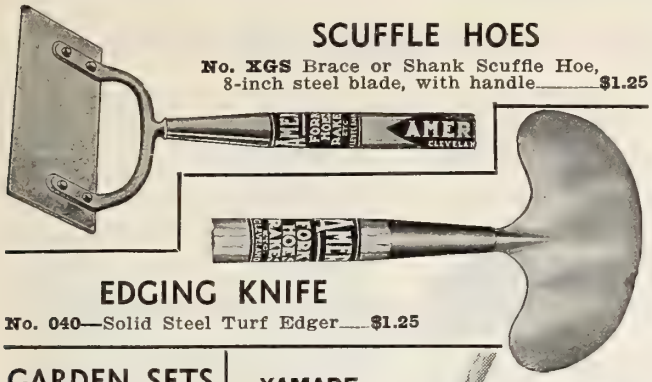
No. P75—Heavy-handled planter shank hoe, 7-in. blade **$1.25**
No. P8½-5—Heavy-handled planter shank hoe, 8-inch blade **$1.40**

GARDEN HOES

No. GO-67—Solid steel garden socket hoe, XX handle, each **$1.15**
No. G67—Solid steel garden shank hoe, XX handle, each **$1.00**
No. LY5—Solid steel lady's shank hoe, XX handle, each **90c**

NO. 1 SOD LIFTER

Each, $2.15



SCUFFLE HOES

No. XGS Brace or Shank Scuffle Hoe, 8-inch steel blade, with handle **$1.25**

EDGING KNIFE

No. 040—Solid Steel Turf Edger **$1.25**

GARDEN SETS

No. 3PF—3-piece, 5-T rake, shovel and hoe **$2.00**

YAMADE "METAL-GRIP" LAWN RAKE

Note the new style with metal grip made of non-corrosive, never-rusting steel. Keeps every tooth permanently placed. Exclusive distributors for this style rake.

18-inch **$0.60**
24-inch **1.00**
30-inch **1.50**

COTTON HOES

No. C75—7-inch, handled cotton hoe **$1.15**
No. C85—8-inch, handled cotton hoe **1.25**

MORTAR HOES

No. S9—9-inch blade, solid socket, 5½-foot handle **$1.30**
No. S10—10-inch blade, solid socket, 6-foot handle **1.50**

STREET HOE

No. 12S—12-inch blade, steel shank, 6-foot handle **$1.80**

DIG EASY MATTOCK HOES

This Hoe is similar to Crescent Double-Bit Hoe.
No. DE3—1⅜-inch and 3-inch blades **$1.15**

INVINCIBLE GARDEN CULTIVATORS

Tines can be adjusted by simply turning a nut.
No. 1GC3—3 shank ..... **90c** **No. 1GC5**—5 shank **$1.15**
Extra teeth **15c**

WIRE POTATO SCOOP

$2.50

STEEL BARLEY FORKS

4 tine **$2.25**

Blood's Bush and Brier Hooks

No. 10—Axe handle hook **$1.75**

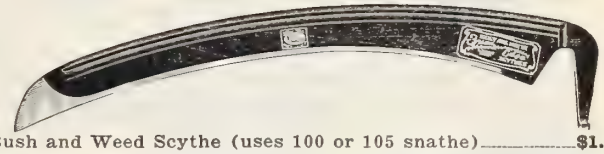
ENGLISH WALDRON BLADES

34-inch Grass Scythe **$2.75**
36-inch Grass Scythe **3.00**
38-inch Grass Scythe **3.25**
40-inch Grass Scythe **3.25**
Bush Scythe **2.50**
Weed Scythe **3.00**

SCYTHE SNATHES

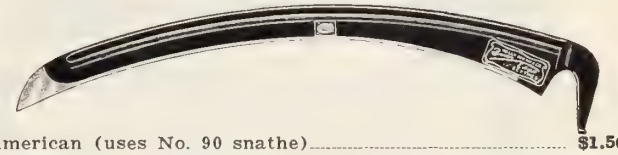
No. 90—Patent loop, solid plate **$1.75**
No. 100—Two rings, bush **1.75**
No. 105—Patent bush snathes **1.75**

BUSH AND WEED SCYTHE



Bush and Weed Scythe (uses 100 or 105 snathe) **$1.75**

GRASS SCYTHE



American (uses No. 90 snathe) **$1.50**

SIDEWALK CLEANERS

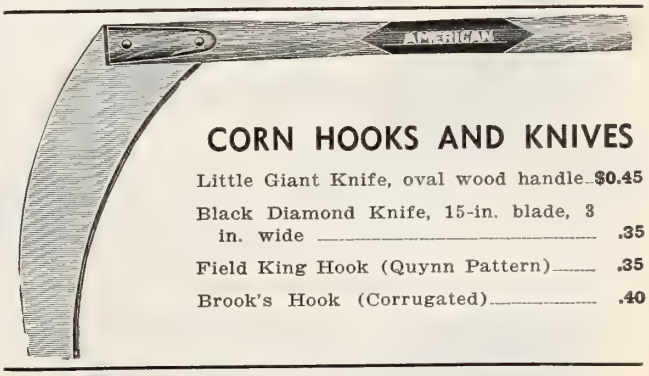
No. OSC—7-inch solid socket, handle **$1.15**
No. 770—8-inch steel blade ..... **.90**

LIGHTNING PATTERN HAY KNIFE

$1.75

AMERICAN SICKLE EDGE HAY KNIFE

$2.00



CORN HOOKS AND KNIVES

Little Giant Knife, oval wood handle **$0.45**
Black Diamond Knife, 15-in. blade, 3 in. wide ..... **.35**
Field King Hook (Quynn Pattern) ..... **.35**
Brook's Hook (Corrugated) ..... **.40**

PLANET JR. LAWN EDGER

Price, $1.50

MANURE FORK HANDLES WITH STRAP FERRULE
No. X—4½ ft., with strap ferrule and cap. Each **55c**
No. X—Plain 4½ ft. Each **35c**

HAY FORK HANDLES
No. X—Plain, 6 ft. Each **50c**
No. X—Plain, 7 ft. Each **75c**
No. X—Plain, 8 ft. Each **$1.00**

GARDEN HOE HANDLES
No. X—Plain, each, 4 ft. **30c**

EYE HOE HANDLES
No. X—For D. E. hoe, 5 ft. 2 in. butt, each **45c**

SHOVEL HANDLES (Plain)
No. X—L. H., 4½ ft., each **45c**
No. X—D. H. **55c**

RAKE HANDLES
No. X—Plain, 5½ ft., ea. **40c**

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

NAYLOR BRAND Plain Black SHOVELS

The blade and straps are made from separate pieces of steel; the straps are welded to the blade. In the blade, stiffness, strength and resistance to abrasion are essential. In the strap, steel is required which is tough, yet ductile enough to conform to the curve as well as the round of the handle.

Long Handle Round Point Shovels

No. 103—Size 2, Long Handle, Round Point Shovel.... **$1.30**

Round Point Dee Handle Shovels

No. 102—Size 2, D Handle, Round Point Shovel..... **$1.30**

Dee Handle Square Point Shovels

No. 100—Size 2, D Handle, Square Point Shovel..... **$1.30**
No. 100—Size 3, D Handle, Square Point Shovel..... **1.40**
No. 100—Size 4, D Handle, Square Point Shovel..... **1.50**

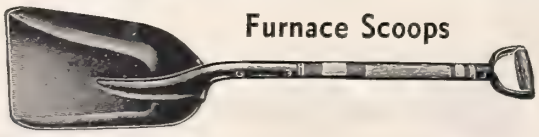
Dee Handle Spades

No. 124—Size 2, Standard Spade, Long Handle..... **$1.30**
No. 125—Size 2, Standard Spade, D Handle..... **1.30**
No. 118—18-inch Ditching Spade, D Handle..... **1.75**
No. 120—18-inch Drain Spade, Round Point, D Handle. **1.75**

Western Pattern Scoops

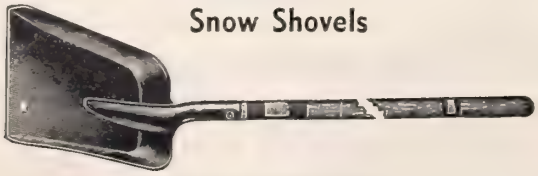
No. 312—Size 4, D Handle, Western Pattern Scoop Shovel **$1.35**
No. 312—Size 6, D Handle, Western Pattern Scoop Shovel **1.50**
No. 312—Size 8, D Handle, Western Pattern Scoop Shovel **1.60**
No. 313—Size 4, Long Handle, Western Pat. Scoop Shovel **1.35**
No. 313—Size 6, Long Handle, Western Pat. Scoop Shovel **1.50**
No. 313—Size 8, Long Handle, Western Pat. Scoop Shovel **1.65**

Furnace Scoops



No. 80S—Furnace Scoop..... **$0.50**

Snow Shovels



No. 91-2R—General Purpose Snow Shovel..... **$0.50**

AMES SHOVELS AND SPADES

GENUINE OLIVER

Each shovel and spade which bears the signature "Oliver Ames," is your continued guarantee of matchless service. It is identified by the genuine O. AMES Label. Significant of the O. AMES grade, is the blade of Ames special alloy; heat treated for maximum resistance to abrasion; with selected second growth Northern Ash, extra strong, fine grained handle.

Long Handle Round Point Shovels

No. 103—Long Handle, Round Point Shovel.....**$2.00**

Long Handle Square Point Shovels

No. 101—Long Handle, Square Point Shovel.....**$2.00**

Square Point Dee Handle Shovels

No. 100—D Handle, Square Point Shovel.....**$2.00**

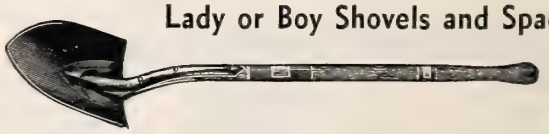
Dee Handle Spades

No. 124—D Handle, Standard Spade.....**$2.00**

Nursery Spades

No. 128—D Handle, Full Strapped Nursery Spade.....**$4.00**

Lady or Boy Shovels and Spades



No. 115—Lady or Campers Shovel.....**$1.25**
No. 114—Ladies' and Boys' Spade.....**1.25**

PICKS, MATTOCKS AND GRUB HOES

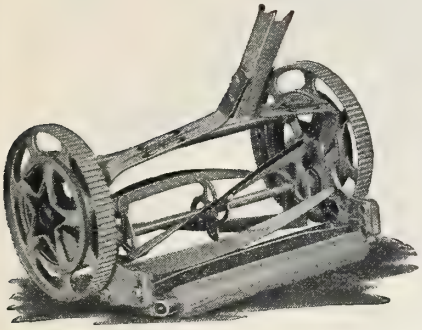
No. 1 Gritco—6 to 7, 7 to 8 and 8 to 9 lbs., Best Quality Warranted Steel Railroad Picks.....**$1.10**
No. 2—6 to 7, 7 to 8 and 8 to 9 lbs., Regular Iron Railroad Picks..... **.90**
No. 1 Gritco—5-lb. Best Quality War, Steel Mattocks..... **1.00**
No. 1 Gritco—6-lb. Best Quality War, Steel Mattocks..... **1.10**
No. 2 Gritco—Warranted Grub Hose.....Each, **1.00**

Pick and Mattock Handles

Retail
First Quality Hickory Pick Handles.....**$0.50**

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

ALL MOWERS MADE BY PENNSYLVANIA LAWN MOWER WORKS



BANNER MOWER

Ball Bearing

8-inch Wheel
4 Blade

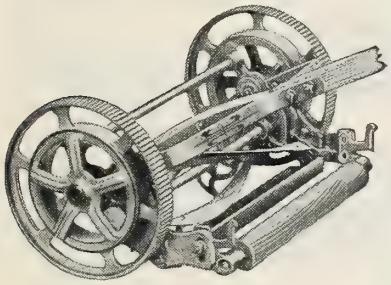
12-in.	$5.40
14-in.	5.60
16-in.	5.80

KLIFTON

10-inch Wheel
4 Blade

14-in.	$6.40
16-in.	6.65
18-in.	7.00

LINCOLN BALL-BEARING MOWER



10-in. Wheel, 5 Blade

This machine is made from high-grade material. Its construction, while extremely simple, is very strong and durable. Ball bearing.

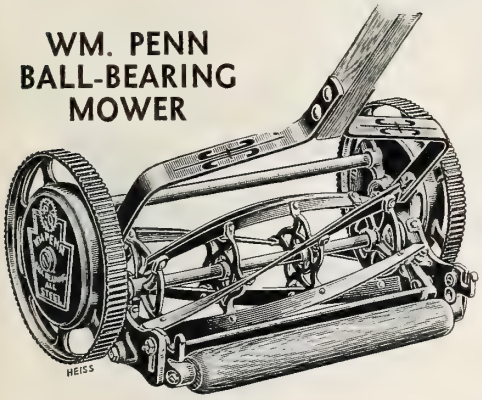
14-in.	$6.75
16-in.	7.40
18-in.	7.50

ORCHID MOWER

10-in. Wheel, 5 Blade

15-in	$11.00
17-in.	11.50

WM. PENN BALL-BEARING MOWER



All Steel Ball Bearing

10-in. Wheel

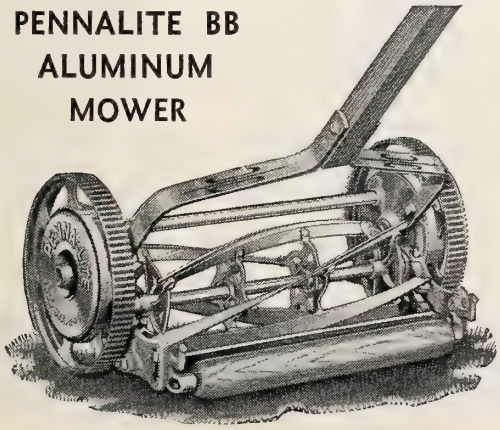
5 Blade

One Size Only

17-in. Mower,

$15.50

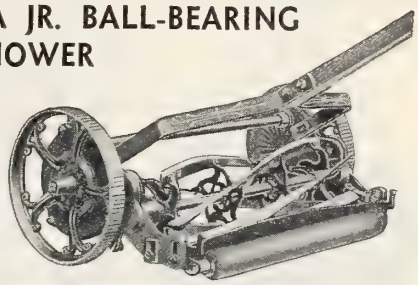
PENNALITE BB ALUMINUM MOWER



Weighs 29 lbs., 17-inch **$15.50**

PENNSYLVANIA JR. BALL-BEARING MOWER

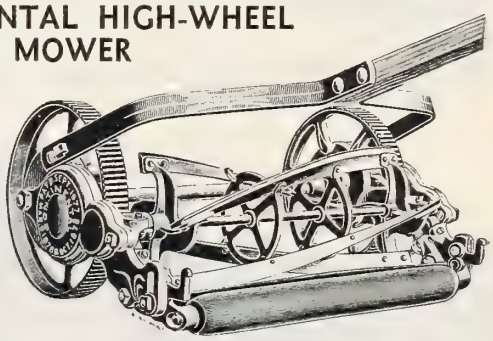
Same high - grade construction used in the Pennsylvania High-Wheel and Continental Mower.



15-in.	$20.00
17-in.	22.00
19-in.	24.00
21-in.	27.00

CONTINENTAL HIGH-WHEEL MOWER

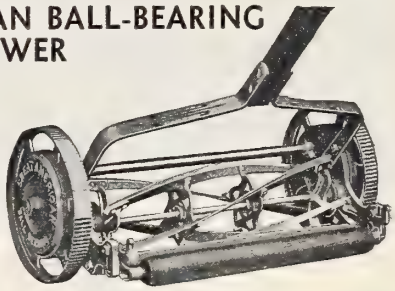
This very high - grade machine will cut fine grass two inches high; also grass six to eight inches. We highly recommend this machine.



15-in.	$20.00
17-in.	22.00
19-in.	24.00

GREAT AMERICAN BALL-BEARING MOWER

Every detail of this Mower is in keeping with the high grade of the Pennsylvania and Continental. Can be regulated to cut from ⅜ to 1⅜ inches from the ground.



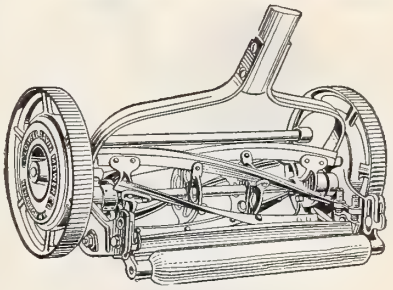
15-in.	$14.00
17-in.	16.00
19-in.	18.00
21-in.	20.00

AMBASSADOR MOWER

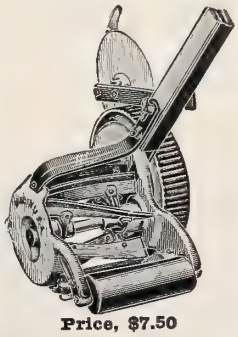
HIGH GRADE ROLLER BEARING

10-in. Wheel, 5 Blades

16-in.	$13.00
18-in.	14.00



ACE TRIMMER



Price, $7.50

LAWN MOWER REPAIRING AND SHARPENING

Our well-equipped shop and competent mechanics, that have been repairing and sharpening lawn mowers for years, assures you of a first-class job.

Our repair department does not confine its operation to sharpening and repairing lawn mowers only. We are in position to do general repair work and solicit your patronage in other lines of work.

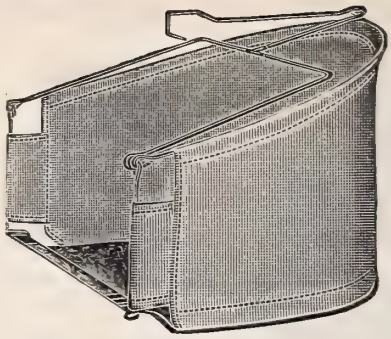
WATER BALLAST LAWN ROLLER

No. 601—Drum 14 in. dia., 24 in. long, weight empty 60 lbs., filled with water 250 lbs., price **$13.25**
No. 602—Drum 18 in. dia., 24 in. long, weight empty 73 lbs., filled with water 330 lbs., price **$15.25**
No. 603—Drum 24 in. dia., 24 in. long, weight empty 100 lbs., filled with water 440 lbs., price **$17.50**
No. 604—Drum 24 in. dia., 32 in. long, weight empty 115 lbs., filled with water 590 lbs., price **$19.75**
No. 607—Plain bearing, 14 in. dia., 15 in. long, price **$10.00**

CAST IRON HAND LAWN ROLLER —Two Sections

No. 504—20 in. dia., 20 in. long, weight 250 lbs., price **$25.50**
No. 507—20 in. dia., 24 in. long, weight 300 lbs., price **$31.00**
No. 509—24 in. dia., 20 in. long, weight 400 lbs., price **$41.00**

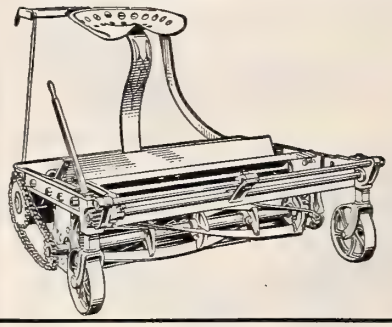
GRASS CATCHER



No. 151H — Metal Bottom Catcher, 13 inches deep, made of heavy duck; heavy galvanized wire frame; adjustable steel hooks; adjustable to mowers 12 to 16 inches wide.

Price, 151H.....**80c**
No. 156H—16 to 20 inches wide.
Price **$1.00**
Canvas Catcher, both sizes.....**50c**

PENNSYLVANIA "NEW" FAIRWAY MOWER



BALTIMORE HORSE MOWER

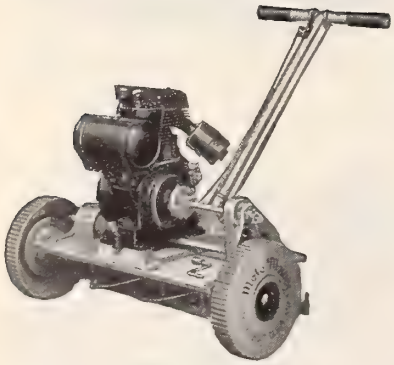
Most satisfactory horse mower on the market.

35-inch with shafts and seat **$190.00**

Cylinders—7 inches in diameter, with accurate adjustment for even cutting. Have six crucible tool steel knives, oil-hardened and water tempered. 30 inch unit.
Bottom Knife—Raised edge, chrome steel; set screw adjustment.
Wheels—17 inches in diameter; tread, 2½ inches. Each fitted with two sets Timken Roller Bearings.
Bearings and Gears are all in dirt-proof, oil-retaining housings. The two intermediate gears are on roller bearings; the cutting cylinders run in the new and revolutionary Braun Self-aligning Ball Bearings. Three gears (on both sides) are cut from special blanks.

Fairway Trio Mower, horse drawn.....**$350.00**
Fairway Trio Mower, tractor drawn..... **325.00**
Fairway 5-Unit Mower, tractor or 4-horse hitch..... **550.00**

MOTO-MOWER



SUPER DETROIT

The Moto-Mower offers efficient power mowing service at a moderate cost.

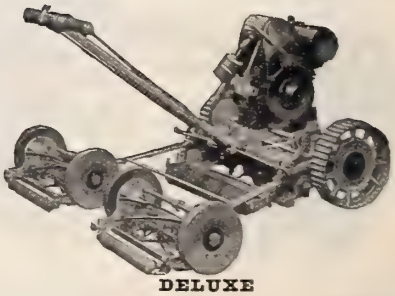
A twist of the wrist controls the power. The power from the engine is transmitted direct to the Cutting Reel, through Jack Shaft, chain and sprocket, the most efficient method of drive known.

It will operate on hills and terraces, and runs an average of eight hours on a gallon of gasoline.

The machine is shipped assembled ready to go to work. Has a fine 4-cycle valve-in-the-head Motor. All parts accurately machined and ground. Splash Oil System is used; has no complicated parts in carburetor.

27-inch Mower has clutch for throwing out

27 inch, Super Detroit **$300.00**
24 inch, Standard **250.00**
21 inch, City Model **195.00**
18 inch, Junior Model **120.00**
Grass Catchers—21 inch **5.00**
24 inch and 27 inch **5.50**



DELUXE

27 inch DeLuxe Mower **$350.00**
27 inch Units **35.00**
Sulky **35.00**
Weed Clipping Attachment for 24 inch and 27 inch **65.00**

GREENS KEEPER

GREENS KEEPER

is a Power Putting Greens Machine, 20 inch cut, weight 165 pounds, throw-out clutch, eight crucible steel blades.

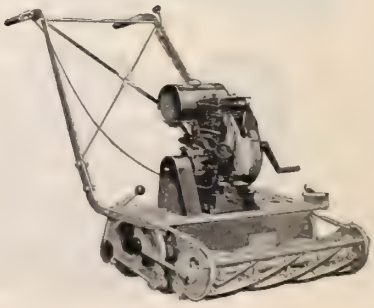
Price **$230.00**

LAWN MASTER

for fine lawns. Tracker roller, 6 crucible blades. The best made. Weight 310 pounds. 25 inch cut.

Price **$315.00**

Send for Special Circulars on all Moto Mowers



LAWN MASTER

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

BAUSMAN STEEL LAWN SWING

With Canopy.....$16.50
Without Canopy .. 14.00

Seat is 30 inches wide; back 29 inches high; wooden arm rests. Height of frame is 7 feet. Floor space required 5x8 feet. Weight is 150 pounds.

No. 7 Porch Settee

Very popular and durable. Finished in weathered oak. All slats bolted to frame; no rivets.

No. 7—5 foot. Our special price..**$7.00**
No. 6—4 foot. Our special price.. **5.00**

THE DESHLER R. F. D.

Top and Sides—Made of No. 20 gauge galvanized steel.

Door—Made of No. 18 gauge galvanized steel, the bottom edge double back upon itself for a distance of three inches. Fits snugly over the curled edge of opening and is weather proof.

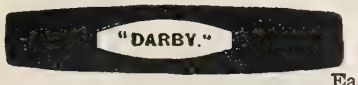
Bottom—Made of No. 20 gauge galvanized steel.

False Bottom—Made of No. 22 gauge galvanized steel.

Inside Measurements — 23⅛ inches long, 13¼ inches high, 11 inches wide.

Weight—350 pounds per dozen, packed in single cartons.

Price **$3.00**
Smaller Curb Delivery Mail Box **1.25**

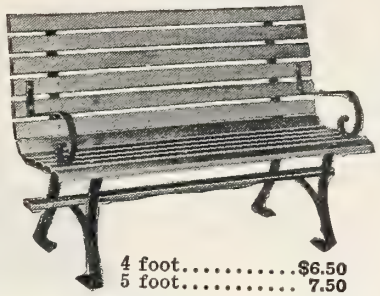


	Each
English Talacre	$0.30
Quinnebog	.20
English Round	.30
Darby Creek	.20
No. 192 Carborundum Scythe Stone	.35
No. 57 Carborundum File	.95

LAWN SETTEES

The frames are made from strong steel, and the seats and backs from smoothly finished hardwood.

Meadowbrook Settee



4 foot.....$6.50
5 foot..... 7.50

Commonwealth Settees

4 foot.....$5.50
5 foot..... 6.50

Universal Settee

4 foot..... **$3.25**

The Juvenile Settee

A small settee of good quality yet inexpensive, with a variety of uses such as fishing seats, extra automobile seats, etc., as well as being a great favorite with the kiddies.

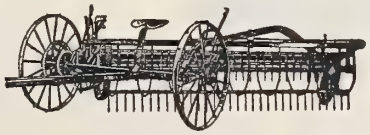
Frame—1x¼ inch steel.

Slats—Eight in number, ⅞x1½ inch clear yellow pine with flat surfaces and rounded edges.

Color—Alternate Orange and Green.

22 inches..... **1.50**
32 inches **1.75**

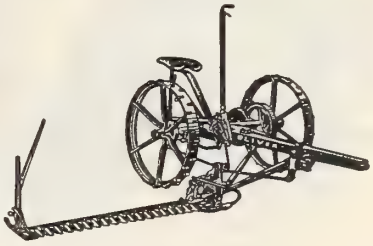
Oliver Side Rake and Tedder



No. 1B—48-tooth, 8-foot..... **$110.00**

Oliver Two Horse Mower

Combined Plain and Vertical Lift

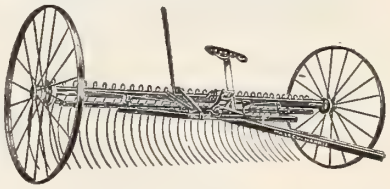


The very latest ideas in engineering and construction — Light draft — Roller bearing. Perfect cutter bar alignment automatically thrown out of gear when cutter bar is raised above a cutting angle. Removable sleeve bearings on counter shaft. Our experience shows it to be the best in the field.

4½ Ft. **$84.00**

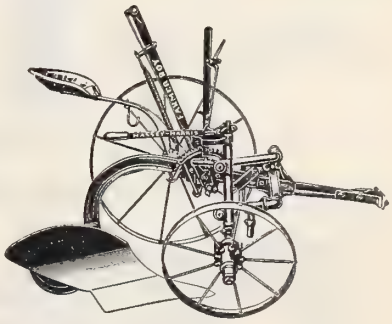
5 Ft. **86.00**

Oliver Steel Hay Rake



	Price
8 Ft.—24 Tooth	$42.50
9 Ft.—24 Tooth	43.00
10 Ft.—32 Tooth	48.00

FARMER BOY SULKY PLOW

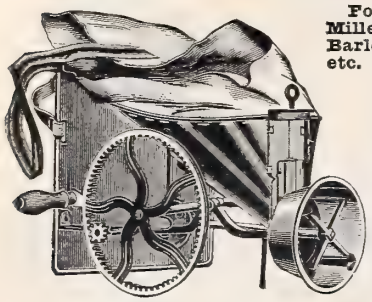


Specifications

A three horse hitch, adjustable caster, colter and wheel hook are furnished with each plow. Extra cast shares can be furnished.

Style Bottom, SG; width Cut, 14 inch; style Moldboard, Turf and Stubble; Wt., 420 pounds. **Price, $65.00.**

CAHOON'S BROADCAST SEED SOWER



For sowing Clover, Timothy, Millet, Oats, Wheat, Hemp, Barley, Rye, Rice, Buckwheat, etc. Standard Seeder of the World—A Model for Accuracy and Durability—Malleable Iron Frame—Steel Hopper and Gate—Brass Discharger.

The breadth of the cast will be according to the weight of the seed. Wheat and Rye, 30 to 36 feet. Oats, 21 to 25 feet. Barley, 27 to 33 ft. Clover, Millet, Hungarian Seed, 20 to 24 feet. Hemp, 27 to 30 feet. Timothy, 15 to 18 feet. Parcel post weight, 8 lbs.

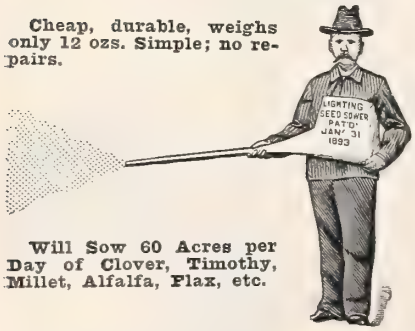
PRICE, $5.00

THE ORIGINAL IMPROVED CYCLONE

It differs materially and very advantageously from all other Sowers in having a slope feedboard with an oblong hopper which terminates in a metal edge, on which edge oscillates a feed plate which does not allow the seed to become clogged, but makes a positive force feed and insures a uniform flow and even distribution of seed. Anyone desiring a convenient, practical and an all-round first-class grain and grass seeder, a good, large sower that will meet the most exacting demands, we cannot recommend the CYCLONE too highly. Parcel Post weight, 6 lbs. **PRICE, $2.50.**

LIGHTNING SEED SOWER

Cheap, durable, weighs only 12 ozs. Simple; no repairs.



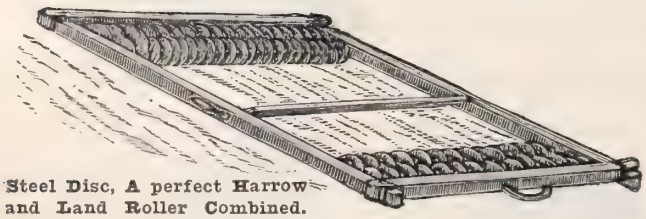
Will Sow 60 Acres per Day of Clover, Timothy, Millet, Alfalfa, Flax, etc.

Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube and the wind has no chance to blow seed into bunches before it strikes the ground.

PRICE, $1.00.

Parcel Post wt., 1 lb.

MEEKER SMOOTHING DISC HARROW



Steel Disc, A perfect Harrow and Land Roller Combined.

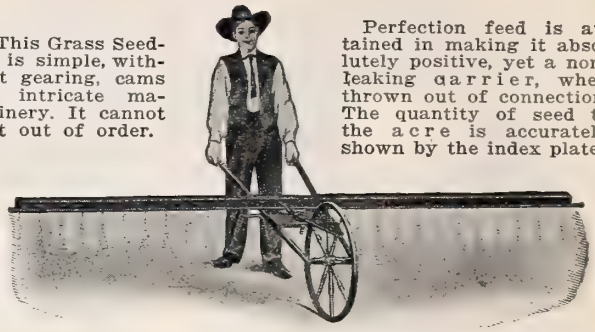
The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 68 discs, 8 inches diameter on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth, and doing its work far better than the rake.

Our Special Price.....$33.50

THOMPSON'S CLOVER AND GRASS SEEDER

Sows 14 to 16 feet Wide, Any Amount Desired Per Acre. Will Sow 20 to 25 Acres Per Day.

This Grass Seeder is simple, without gearing, cams or intricate machinery. It cannot get out of order.



Perfection feed is attained in making it absolutely positive, yet a non-leaking carrier, when thrown out of connection. The quantity of seed to the acre is accurately shown by the index plate.

Rope Feed Seeder

It is strong, yet weighs but 40 pounds.

No. 1—14-foot, single hopper, **$14.00**
No. 1—16-foot, single hopper, **15.00**

No. 5—Complete Seeder, with Double Hopper, sows Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover. 14-foot, **$17.00.**

THOMPSON'S ROYAL CLOVER AND GRASS SEEDER

These Seeders are similar to the Thompson above, except they have **Chain Feed.**

No. 11—14 ft., single hopper.....**$14.00**
No. 11—16 ft., single hopper..... **15.00**
No. 12—14 ft., double hopper..... **17.00**
No. 10—10 ft., double hopper, Universal Seeder for all grass seeds, grain, cow peas and soy beans..... **18.00**

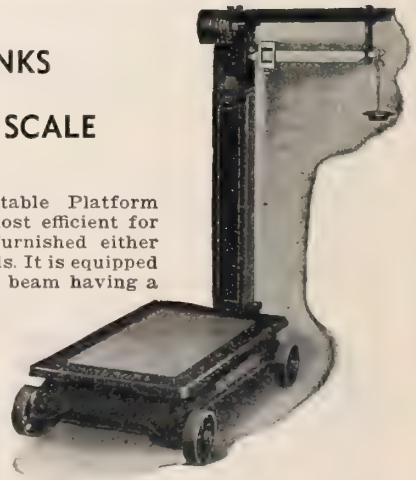
THOMPSON'S GOLF SPECIAL SEEDER

Golf greens, fairways and lawns must be seeded evenly to produce the desired uniform turf.

Thompson Golf Special Seeders are used on America's leading golf courses and private estates because they are speedy, accurate and economical. Wind or mud do not interfere with their accurate work because they sow close to the ground and cannot clog.

No. 106 Seeder, 10-ft. hopper, weight, 60 lbs......**$26.00**

FAIRBANKS PORTABLE SCALE

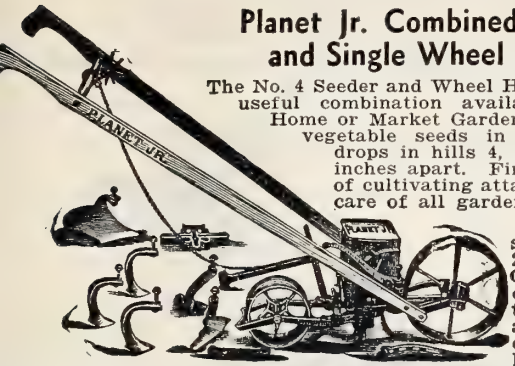


This type of Portable Platform Scale is one of the most efficient for general use and is furnished either with or without wheels. It is equipped with **arrow-tip** single beam having a center indicating sliding poise with set - screw, all of brass.

Durably and attractively finished in blue with bronze stripe, all well varnished for protection.

No. 1124, capacity 1000, size of platform 18x27 in., price..**$27.70**
No. 1128, capacity 500, size of platform 16x25 in., price.. **24.25**

Planet Jr. Combined Seeder and Single Wheel Hoe No. 4



The No. 4 Seeder and Wheel Hoe is the most useful combination available for the Home or Market Gardener. Sows all vegetable seeds in the drill or drops in hills 4, 6, 8, 12 or 24 inches apart. Fine assortment of cultivating attachments take care of all garden work.

Capacity of seed hopper 2½ quarts. Quickly changed from hill to drill seeder and from seeder to wheel hoe.

No. 4 Hill and Drill Seeder and Single Wheel Hoe Combined **$16.75**
No. 4-D Seeder only **13.50**

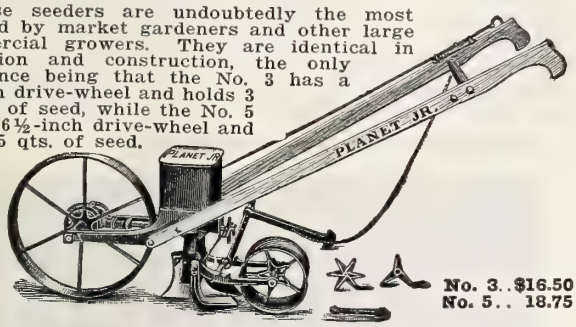
No. 25 Hill and Drill Seeder Double and Single Wheel Hoe Combined

Price, $21.00

The "Complete Gardener." Sows all vegetable seed in the drill and drops in hills 2, 6, 8, 12 and 24 inches apart. As a Double Wheel Hoe it straddles the row, cultivating both sides at one time until the plants are 20 in. high. Cultivating attachments consist of 1 pair of plows, 1 pair of 6-inch hoes, 4 steel cultivator teeth and a pair of leaf lifters.

Nos. 3 & 5 Planet Jr. Hill and Drill Seeder

These seeders are undoubtedly the most favored by market gardeners and other large commercial growers. They are identical in operation and construction, the only difference being that the No. 3 has a 15-inch drive-wheel and holds 3 quarts of seed, while the No. 5 has a 16½-inch drive-wheel and holds 5 qts. of seed.



No. 3..$16.50
No. 5.. 18.75

No. 300 Planet Jr. Drill Seeder

Capacity 4 Quarts

Price, $18.75

There has always been a demand for a quality seeder which will sow through holes in a plate rather than through a variable diamond-shaped opening.

Accurate Seeding

The seed is pushed through a hole in the plate by a patented feed wheel of a new type.

No. 19 Garden Plow and Cultivator

Packed Weight 18 lbs. 15-inch steel wheel.

Equipment—1 2-in. cultivating tooth; 1 10-in. sweep; 1 plow; 1 5-prong cultivating attachment.

Price, $4.75

No. 12 Planet Jr. Single and Double Wheel Hoe

The most popular combination of Double and Single Wheel Hoe for the Market Gardener and Home Gardener in use today. The assortment of cultivating attachments consisting of one pair of plows, 1 pair of 6-inch hoes, 4 steel cultivator teeth, and 1 pair of leaf lifters. Cultivates both sides at one time.

Price, $10.25 No. 11, with 4½ in. Hoes and 4 Rakes, **$13.00**

No. 17 Planet Jr. Single Wheel Hoe

As Illustrated, $7.35

No. 16—With Rakes and Leaf Guard, **$8.50**

No. 18—With 2 6-inch Hoes only, **$5.50**

Fire Fly Garden Plow

This is an exceedingly useful tool to owners of small gardens. It will throw a furrow 4 to 6 in. wide and 1 to 3 inches deep.

Price $4.00

No. 119 Planet Jr. Garden Plow and Cultivator

Equipment
One 1¼-inch cultivat'g tooth.
One 4-inch cultivating tooth.
One plow.
One reversible scuffle blade.

Price, $3.60

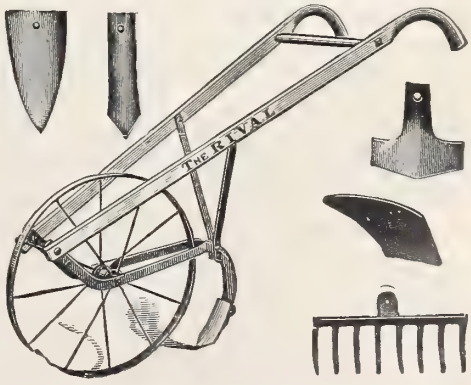
No. 119 has a wheel, with $\frac{3}{16}$x⅜ inch steel spokes, very strong, **24 inches in diameter.** Furnished with Norcross 5-tooth weeder attachment in place of scuffle blade.

Price, $3.80

Five-Tooth Weeder Attachment

Can be attached to any of the Garden Plows.
Price, 80c each.

"Oriole" Garden Plow Complete



Price, $3.50

Mould	60c.
Sweep	40c.
Large Blade	30c.
Bull Tongue	25c.
Rake	50c.
Wheel	$1.50
Weeder	40c.

PLANET JR. HORSE HOES AND CULTIVATORS

It is an unquestioned fact that Planet Jr. horse-drawn cultivating implements are more universally known, and bear a higher reputation for quality, than any other cultivating machines ever made.

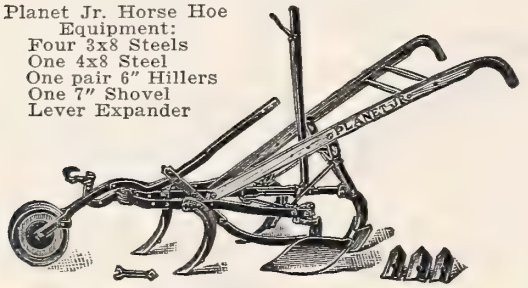
PLANET JR. CULTIVATOR

Planet Jr. Plain Cultivator
Four 3x8 Cultivator Shares.
One 4x8 Cultivator Share.

No. 4—With Steel Wheel.....$9.45
No. 4D—Cultivator without Wheel..... 7.70
No. 9—With Lever and Wheel.....11.50
No. 9D—With Lever, no Wheel..... 9.75

PLANET JR. HORSE HOE

Planet Jr. Horse Hoe
Equipment:
Four 3x8 Steels
One 4x8 Steel
One pair 6" Hillers
One 7" Shovel
Lever Expander



No. 9—With Steel Wheel.....$12.75
No. 9D—Less Steel Wheel..... 11.00
No. 8—With Wheel and Lever Wheel..... 14.70
Vineturner adds..... 2.50
Roller adds..... 4.75
Steel Wheel as an extra..... 1.75

NO. 90 PLANET JR. 12-TOOTH HARROW, CULTIVATOR AND PULVERIZER

No. 90 Complete, as shown, $15.50

No. 90B—Less Pulverizer $12.75
No. 90D—Less Pulverizer and Wheel..... 10.00

Shovel Steels Fit All Planet Jr. One and Two Horse Cultivators

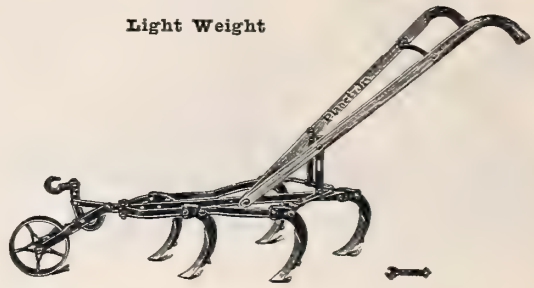
	Price
7-inch Shovel, Steel, No. 2539	$0.30
8-inch Shovel Steel, No. 2540	.35
6-inch Hillers, No. 1167/8, per pair	1.20
6-inch Hillers, with connecting pieces, per pair	2.00
7-inch Plows, No. 495/6, per pair	1.50
7-inch Plows, with connecting pieces, per pair	2.30

Furrowers Fit All Planet Jr. Cultivators Excepting 12-Tooth Harrows

10-inch Furrower, No. 1161	$0.95
12-inch Furrower and Bolt, No. 2621	1.25
15-inch Furrower and Bolt, No. 1162	1.65
20-inch Furrower and Bolt, No. 292X	3.00
20-inch Furrower, Sharp, No. 293X	3.00
Wings for 20-inch Furrower, per pair	1.20
Point for 20-inch Furrower, No. 1948	.28
Harrow Tooth, No. 1229	.33

PLANET JR. CULTIVATOR

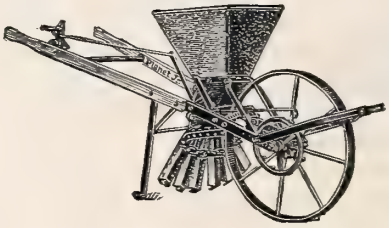
Light Weight



No. 100D—Light Cultivator, no Wheel.....$6.75
No. 101—Light Cultivator with Lever and Wheel..... 9.90
No. 101D—Light Cultivator, with Lever, no Wheel..... 8.30

NO. 220 PLANET, JR.

Saves Time, Labor—Produces Bigger Crops



The No. 220 will distribute fertilizer in the middles of three rows 12 to 14 inches apart; it will side-dress one side each of two rows up to 36 inches apart (one complete row) and corn in wider rows. You can use it in very narrow rows—as close as 9 inches. You can use it in 42 to 48-inch rows by closing off the flow in three spouts and distributing through the other three—either on the right or left-hand side.

It will distribute **100 to 2,000 pounds of commercial fertilizer to the acre.** The shut-off rod is operated without stopping the distributor. **Price**..... **$26.00**

8-inch Steels Fit Planet Jr. Horse Hoes, Plain Cultivators and No. 72 Pivot Wheel Cultivator

	Price
1 x 8-inch Steels, No. 4064	$0.15
1¼ x 8-inch Steels, No. 1156	.16
1¾ x 8-inch Steels, No. 2367	.17
2¼ x 8-inch Steels, No. 2368	.18
3 x 8-inch Steels, No. 2369	.20
4 x 8-inch Steels, No. 2370	.25

10-inch Steels Fit All Planet Jr. Two-Horse Cultivators Excepting No. 72

1¼ x 10-inch Steels, No. 1888	$0.18
1¾ x 10-inch Steels, No. 1249	.20
2¼ x 10-inch Steels, No. 1199	.22
3 x 10-inch Steels, No. 1200	.26
4 x 10-inch Steels, No. 1201	.30

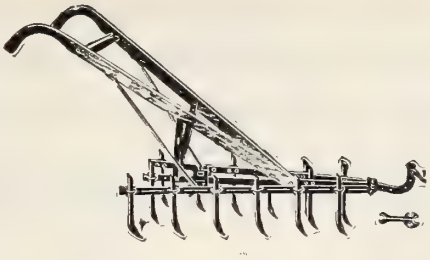
Hoe Steels Fit Planet Jr. Horse Hoe Side Standards

6-inch Hoe Steel and Bolt, No. 1163/4, Pair	$1.20
10-inch Hoe Steel and Bolt, No. 1165/6, Pair	1.40

OLD DOMINION (Straight Frame) AND ORIOLE (Bent Frame) CULTIVATORS

With Outside Handle Braces and Wheel Clamp

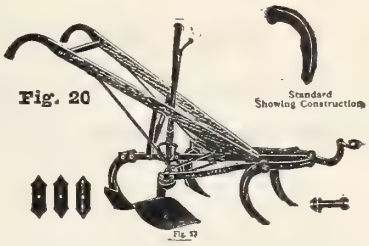
Cultivator, plain	$6.00
Cultivator with Lever	6.60
Wheels for Cultivators, each	1.00



COMBINED HARROW AND CULTIVATOR

14 Tooth—With Outside Handle Braces and Wheel Clamp

Price, without Lever	$7.00
Price, with Lever	8.00

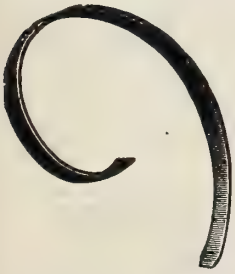


Lord Baltimore Cultivators and Horse Hoes

Fig. 20—With Lever, price $10.00

SHOVEL PLOWS

Farmers' Favorite, single-shovel plow	$4.60
Farmers' Favorite, double-shovel plow	4.60
Regular triple shovel plow	6.50

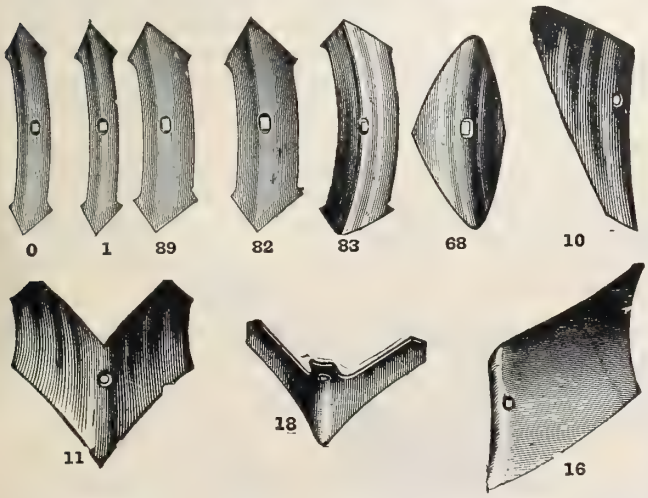


SPRING HARROW TEETH

For All Leading Harrows

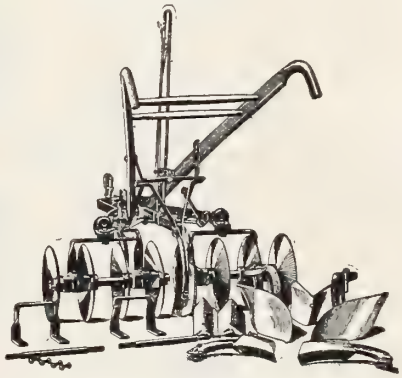
Price .....55c each

CULTIVATOR STEELS



Cultivator Handles, complete, per pair	$1.50
Handles for single, double or triple shovel plows, complete with round and rod, per set	1.50

Frank Beasley's Patent Disc Attachments



To fit any five-tooth cultivator.

If you have a good five-tooth cultivator, you can secure these parts to attach to same and make your old cultivator as up-to-date as it would be possible to have it. These Disc Attachments come in gangs of either six or eight discs or can be had in combination of six and eight discs.

These disc gangs are sometimes used on fertilizer distributors with fine results.

Six-Disc Attachment, weight 43 pounds	$8.75
Eight-Disc Attachment, weight 53 pounds	10.75
Combination 6 and 8 Disc Attachment	12.00
Disc Cultivator complete, 8 disc and standards for five-tooth and wheel	$25.25

Steels for Riding and Walking Cultivators

	Per 100
No. 0—1¼x8	$11.00
No. 1—2x8	13.00
No. 89—2½x8	14.40
No. 82—3x8	15.40
No. 83—3½x8	18.00
No. 84—4x8	20.00
No. 10—Turn shovel	24.00
No. 16—Turn shovel	24.00
No. 11—6-in. sweep	30.00
No. 11—8-in. sweep	33.00

	Each
No. 12—Horse hoe, steel	.65
No. 18—6-in. sweep	.30
No. 18—8-in. sweep	.33
No. 18—10-in. sweep	.37
No. 18—12-in. sweep	.40
No. 18—15-in. sweep	.45
Wheels for Cultivator	1.00
Cultivtr. plate Bolts, 1½	.03
Cultivtr. Plate Bolts, 2½	.03
Cultivator Frame Bolts	.03
Wheel Cultivator Clamps	.48
Horse Hoe Attachments, complete, per set of three pieces	2.40
Teeth for Baltimore Combined Harrow	.12

	Each
1¼x10½ inches	$0.15
1½x10½ inches	.16
2 x10½ inches	.17
2½x10½ inches	.18
3 x10½ inches	.19
3½x10½ inches	.22
4 x10½ inches	.24

WITH BACKS

1½x10½ inches	$0.40
2 x10½ inches	.44
2½x10½ inches	.48
3 x10½ inches	.50
3½x10½ inches	.56
5 x11 inches	.65

SPIKE HARROW TEETH

½, 7/16, ⅝, ¾, and ⅞ in., 8c lb.

SHOVEL PLOW STEELS

FF Triple Shovel Steels, sizes 4x7, 4½x7, 5x8, 5½x8, per pound	$0.14
FF Double Shovel Steels, sizes 5x10, 6x10, 7x10, 8x10, per pound	.13
FF Single Shovel Blades, all sizes, per pound	.13

OLIVER CHILLED WALKING PLOWS

WHEN ORDERING PLOWS AND REPAIRS STATE RIGHT OR LEFT HAND

OLIVER CHILLED PLOWS AND EXTRAS	Capacity	Plain Plow	Wheel	Jointer	Plain Shares	Slip Shares	Lands	Moulds	Standards	Beams
Goober—Steel Beam		$8.00			$.20		$.45	$1.35	$2.05	
No. 6—Steel Beam	4½"x8"	7.00			.20		.45	1.30	1.35	
No. A-C-2—Steel Beam	4½"x9"	9.00	$1.95		.27	$.34	.50	1.45	2.05	
No. B-C-N—Steel Beam	5" x10"	10.60	1.95		.35	.46	.65	1.85	2.15	
No. 10-N—Steel Beam	5½"x11"	13.25	1.95	$3.85	.40	.50	.75	2.05	2.70	
No. 13-N—Steel Beam	6" x11"	15.00	1.95	3.85	.50	.60	.85	2.70	2.95	
No. 19-N—Steel Beam	6½"x12"	16.25	2.20	4.95	.55	.65	.90	2.95	2.95	
No. 20-N—Steel Beam	7" x13"	17.50	2.20	4.95	.60	.70	.95	3.10	3.15	
No. 40-N—Steel Beam	9" x16"	20.00	2.20	4.95	.65	.75	1.00	3.40	3.40	
No. 512—Hillside Steel Beam	8" x13"	23.00	1.65	3.30	.90		1.10	3.75		
No. 513—Hillside Steel Beam	8" x15"	24.00	1.65	3.30	.90		1.10	4.10		
No. 524—Hillside Iron Beam	8" x15"	20.00	1.65	3.30	.95		1.10	4.10		
No. 83—Steel Beam	7" x14"	20.00	2.20	4.95	.80	.90	1.45	5.00	4.80	
No. 84—Steel Beam	8" x16"	23.00	2.20	4.95	.80	.90	1.45	5.00	4.80	
No. A-C-2—Wood Beam	4½"x9"	8.50	1.65		.27	.34	.50	1.45	2.70	$3.85
No. B-C-N—Wood Beam	5" x10"	10.00	1.65		.35	.46	.65	1.85	3.00	3.85
No. 10-N—Wood Beam	5½"x11"	13.25	1.65	3.60	.40	.50	.75	2.05	3.10	3.85
No. 13-N—Wood Beam	6" x11"	15.00	1.65	3.60	.50	.60	.85	2.70	3.40	3.85
No. 19-N—Wood Beam	6½"x12"	16.25	2.50	3.85	.55	.65	.90	2.95	3.75	4.15
No. 20-N—Wood Beam	7" x13"	17.50	2.50	3.85	.60	.70	.95	3.10	4.00	4.15
No. E-I-N—Wood Beam	7" x14"	20.00	2.50	3.85	.65	.75	1.00	3.40	4.40	4.15
No. 40-N—Wood Beam	9" x16"	20.00	2.50	4.40	.65	.75	1.00	3.40	4.55	4.15
No. 40-XX—Wood Beam	9" x16"	23.00	2.50	4.40	.80		1.00	4.25	6.50	4.95
No. 98		21.00	2.50	3.85	.55		1.45	4.75		
No. A-2					.23		.50	1.45	2.80	
No. 3-X					1.05		1.60	5.80		

Reversible Slip Noses $0.15
Reversible Slip Noses, No. 98, 99 ..... .25

WHEEL PARTS

Standards, one-horse, straight $1.00
Standards, two-horse, all kinds 2.00
Wheels only, one-horse ..... .55
Wheels only, two-horse ..... .85
Hubs ..... .25
Center pins or hub bolts ..... .05
Wheel hook bolts ..... .15

Note—In ordering wheels, say if for right or left hand, wood or steel beam plows.

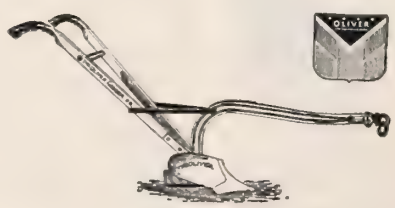
JOINTER PARTS

Jointer points, chilled, all numbers $0.20
Jointer mouldboards ..... .40
1-horse jointer holders, steel beam ..... .85
Wood beam 1.65
2-horse jointer holders, steel beam 1.65
Wood beam 1.95
1-horse jointer standards 1.35
2-horse jointer standards 1.60
91N—Steel Beam F683 ..... 1.45

CLEVISES

Wood Beam—	Price
A, for A-B-10 Plow	$0.25
B, for 13-19-20 Plow	.60
D, for 40 Plow	1.10
Steel Beam—	
No. 2, for A-C, B-C Plow	.95
No. 90A, for 10-13-19-20 Plow	1.30
No. 91, for 40 Plow	1.65
WOOD HANDLES (Single)	.85
Handle Rounds, each	.10
Sets, all numbers up to 10	2.20
Sets, all numbers, 13 and above	2.75

(State if old or new style handles).



OLIVER STEEL BEAM PLOW

PARTS FOR TRACTOR PLOWS

NC-23—12-inch AD share $1.40
NC-23—14-inch AD share 1.60
NC-23—16-inch AD share 2.05
NC-3—18-inch share 1.90
84-88—12-inch share ..... .80
F-926-A—Long land 1.20
F-905-A—Short land ..... .55
F-683—No. 91 land 1.45

ROLLING COULTER

11-inch Coulter $5.30
13-inch Coulter 5.60

BOLTS

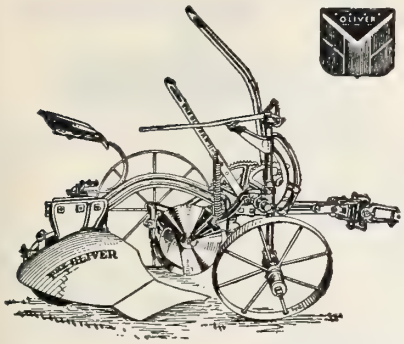
For shares, mouldboards and landslides, and jointer, each $0.05

For jointer and coulter holder, wheel standards, Nos. 20 and 40 steel beam to landslide bolts, each ..... .10

For all standards and beams, spreading bottom of handles, each ..... .15

Cast Washers are not included in prices for bolts.

THE OLIVER SULKY

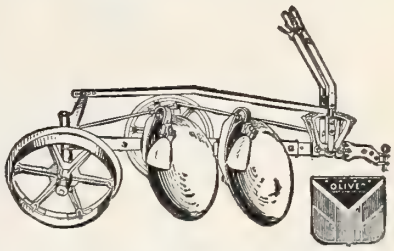


This Sulky is the most popular plow of its kind ever built. Turns square in-and-out corners with the bottoms cutting full width and depth.

FURNISHED IN BOTH RIGHT AND LEFT HAND

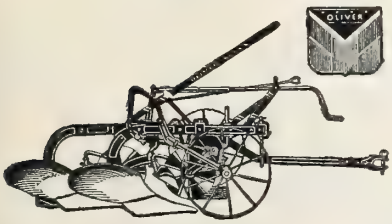
Regularly equipped with steel evener and No. 90 Chilled Jointer and Weed Hook

	Price
All Chilled, 12-inch	$60.00
All Chilled, 14-inch	62.00
For tongue and neckyoke, add	3.45
For combination rolling coulter instead jointer, add	4.00
For plain rolling coulter instead of jointer, add	.75
Weed Hook, deduct	1.10
3 Horse Evener not taken, deduct	3.75



D75—2 24-in. discs, for tractor, $122.50

OLIVER No. 9-XX ADJUSTABLE TRACTOR PLOW



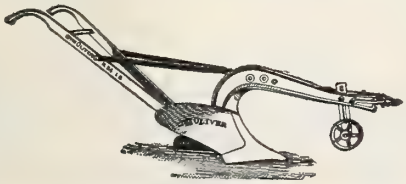
The Oliver No. 9-XX adjustable plow can be set so that the bottoms will cut 11, 12, 13 or 14 inches. When the ground is hard and plowing is difficult the bottoms can be set to cut narrow; when plowing conditions are favorable they can be set to cut at full width, or 14 inches per bottom. The adjustment is made by expanding or closing the frame.

An Easily Operated Plow—A powerful ball-bearing screw control so multiplies human effort that it makes depth adjustment rapid and easy.

A Trip Rod for the Power Lift—The use of a trip rod eliminates thoublesome work with a trip rope. Note another advantage of this plow which is the position of the wheels to carry the weight of the plow, eliminating drag weight and lessening draft.

The Advantage of Great Clearance—The Oliver No. 9-XX has unusual clearance under the bottoms and between the bottoms. This is a decided advantage when plowing under high weeds, corn stalks, wheat stubble, etc. **Price**.....$85.00

OLIVER No. 24 GRADING PLOW



An extremely strong iron beam plow for road breaking, excavation work or the heaviest of field work. The beam standard and frog are one piece. This plow has a chilled mouldboard and a deep suck cutter share.

No. 24—Iron Beam, equipped with a gauge iron, instead of wheel $33.00

OLIVER No. 25 PAVEMENT PLOW

A popular plow for tearing up macadamized roads, streets, gravel roads, etc. Built extra strong and rigid, the beam standard and handle braces are cast in one piece. The pick is both reversible and adjustable. All wearing parts are renewable.

Regularly equipped with a gauge iron.

No. 25—Pavement Plow, price.....$42.00
Reversible Steel point or spike, price..... 4.25

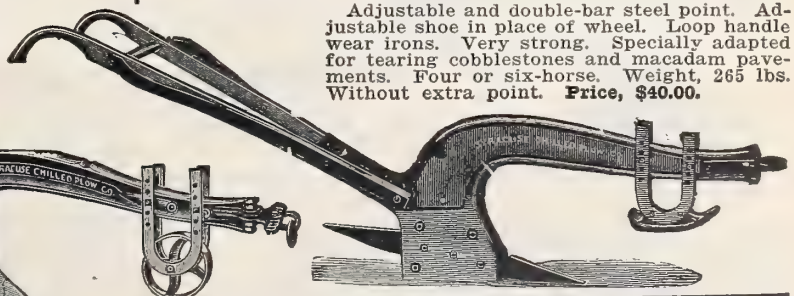
SYRACUSE CONTRACTORS' PLOW No. 1

One of the best two-four horse contractors' plows. A great favorite.

Hard iron wearing parts. Extra heavy beam, share and strip, steel wheel standard. Turn furrow 5 to 9 inches deep, 12 to 15 inches wide. For general grading purposes. Two to four-horse. Weighs 185 lbs. with wheel, **$32.00.** Can furnish with Steel Handles. Extra $1.50

SYRACUSE PAVEMENT PLOW No. 98

Adjustable and double-bar steel point. Adjustable shoe in place of wheel. Loop handle wear irons. Very strong. Specially adapted for tearing cobblestones and macadam pavements. Four or six-horse. Weight, 265 lbs. Without extra point. **Price, $40.00.**



SYRACUSE CONTRACTORS' PLOW No. 99
Four to Eight Horses. Weight, with Shoe, 310 lbs. Without extra Share. **$70.00.**

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

PLOWS

Wiard Steel Beam Plows and Extras	Plain Plow	Plain Shares	Slip Nose Shares	Moulds	Lands	Shoes for Lands	Shins or Cutters
No. 16	—	$0.65	$0.75	$4.00	$1.00	—	
No. 25	—	.70	.85	4.50	1.25	—	$0.70
No. 27	—	.70	.85	4.50	1.55		.70
No. 43	—	.70	.85	4.25	1.25*	$0.70	.70
No. 44	$21.50	.70	.85	4.50	1.25	.70	.70
No. 65	—	1.15	—	5.50	1.75	—	—
No. 80	22.00	.70	.85	5.00	1.00	.70	.70
No. 90	—	.70	.85	5.00	1.00	.70	.70
No. 103	19.75	.70	.85	4.25	1.25*	.70	.70
No. 106	25.00	.75	.85	4.75	1.25*	.70	.70
No. 115X	21.00	.85	—	4.50	—	1.15	—
No. 116	—	.95	—	5.50	—	1.15	—
No. 126	—	.95	—	4.50	—	1.15	—
No. 214	—	.40	—	3.00	1.00	—	—
No. 219	—	.70	1.00	4.50	1.40	—	—
No. 240	24.00	.90	1.00	5.00	1.50	—	—
No. 440	24.00	.90	—	5.00	1.50	—	—
No. 522	—	.60	.75	4.00	1.25	—	.75
No. 524	19.75	.70	.85	4.50	1.60	—	.75
No. 526	21.50	.70	.85	5.00	1.60	—	.75
No. 546	20.25	.70	.85	5.00	1.60	—	.75
No. 548	23.50	.75	.85	5.50	1.60	—	.75

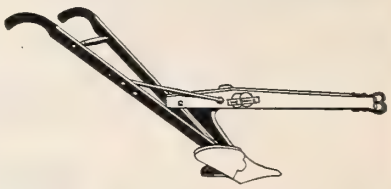
*Solid or One-Piece Lands for Nos. 43, 44, 103, 104, and 106, $1.60. Wheels complete, $2.00. Steel Beam Jointers, $4.75.
No. 546, Sulky Plow, $50.00.

Syracuse Plows and Repairs	Plain Plow	Plain Shares	Slip Nose Shares	Moulds	Lands
No. 1-78 Regular	—	$0.52	$0.67	$3.90	$0.83
No. 1-78 Contractor	—	.67	—	5.30	1.43
No. 2-78	—	.50	.65	3.40	.77
No. 10-78	$20.25	.66	—	4.30	.95
No. 20-78	—	.52	.67	3.60	.77
No. 30-78	21.75	.55	.70	3.90	.90
No. 35	—	.74		5.75	1.85
No. 95	—	.50	.65	3.95	1.20
No. 96	—	.50	.65	4.15	1.29
No. 97	—	.55	.70	4.55	1.41
No. 98 Rooter	—	5.50	—	—	—
No. 501	20.00	.56	.71	4.55	1.25
No. 502	—	.52	.67	4.15	1.25
No. 503	—	.52	.67	2.80	1.16
No. 601	—	.56	.71	4.55	1.25
No. 602	—	.52	.67	4.15	1.25
No. 603	—	.52	.67	2.80	1.16
No. X1341 Q. D.	—	.63	.78	4.85	—
No. X1342 Q. D.	—	.59	.74	4.40	—
No. X1441 Q. D.	—	.63	.78	4.85	—
No. X1442 Q. D.	—	.59	.74	4.40	—
Nos. 361, 461, 1361, 1461	—	.56	.71	3.40	.93
Nos. 362, 462, 1362, 1462	—	.52	.67	3.10	.93
Nos. 363, 463, 1363, 1463	—	.52	.67	2.80	.87

FARMERS' FRIEND PLOW

No. ½	$5.30
No. 5	5.30
No. 1 Hillside	8.00
Plain Castings, per lb.	.06
Polished Castings, per lb.	.08

"BOY" DIXIE PLOW



"Boy" Dixie	$3.75
No. X	5.25
No. I	5.50
No. II	7.50
Plain Castings, per lb.	.06

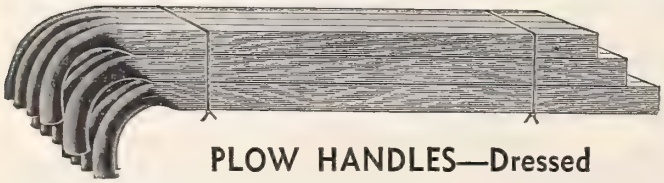
WHITE'S CLIPPER PLOW

No. 2, Cast, One-Horse	$5.50
No. 12, Cast, Two-Horse	10.00
Castings for Clipper Plow, per lb.	.06

"GIRL" CHAMPION PLOW

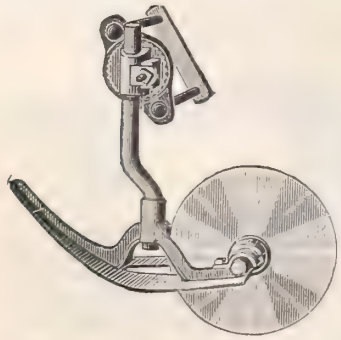
(WHITE'S)

No. "Girl"	$5.00
No. A	5.50
No. 2	7.00
Castings, Plain, per lb.	.06
Castings, Polished, per lb.	.08



PLOW HANDLES—Dressed

1⅛x2 inches, 5 feet long, per pair	$0.60
1¼x2¼ inches, 5 feet long, per pair	.68
1¼x2¼ inches, 6 feet long, per pair	.90
1½x2⅜ inches, 5 feet long, per pair	.90
1⅛x2 inches, Side Bend, per pair	.68



"MOON" ROLLING COULTER

The shoe presses down all weeds and trash and holds same firmly while being cut by the coulter.

No. 1—8-inch disk	$4.25
No. 2—10-inch disk	4.75
No. 3—12-inch disk	5.50

Repairs for Chattanooga Plows

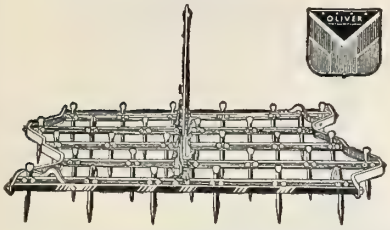
	Shares	Land-sides	Mould-boards
No. 62 1-Horse, W. B.	$0.25	$0.50	$1.35
No. 62 1-Horse, S. B.	.25	.50	1.35
No. 63 2-Horse, S. B.	.40	.80	2.05
No. 64 2-Horse, S. B.	.50	.90	2.70
No. 65 2-Horse, S. B.	.60	1.05	3.10
No. 66 2-Horse, S. B.	.65	1.05	4.00

MASSEY-HARRIS REPAIRS FOR PLOWS

(Formerly Case)

Plow	Cast Share Brand	Price	Steel Share Brand	Prices Solid	Prices Hard
480½ GEX	GM 0	$1.10	10 G	$2.50	$3.70
482½ GEX	GM 2	1.20	12 G	2.80	4.25
484½ GEX	GM 4	1.35	14 G	3.00	4.55
510½ GPX	GP 0	1.10	GP 10	2.50	—
512½ GPX	GP 2	1.20	GP 12	2.80	—
514½ GPX	GP 4	1.35	GP 14	3.00	—
SG 12	SG 2	1.20	SG 12	2.80	4.25
SG 14	SG 4	1.35	SG 14	3.00	4.55
SG 16	SG 6	1.50	SG 16	3.55	5.00

OLIVER U. B. C. SPIKE HARROW



Horse Harrow

Regularly equipped with evener bar.

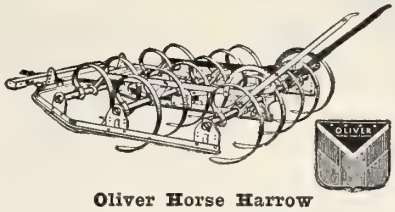
50-Tooth, 2-section	$18.00
60-Tooth, 2-section	21.00
75-Tooth, 3-section	29.40
90-Tooth, 3-section	33.40

Tractor Harrow

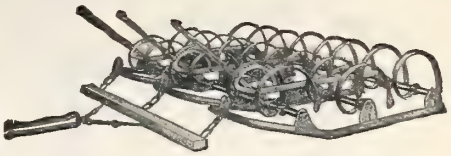
Regularly equipped with a tractor hitch.

90-Tooth, 3-section	$35.00

OLIVER SPRING-TOOTH HARROW



Oliver Horse Harrow



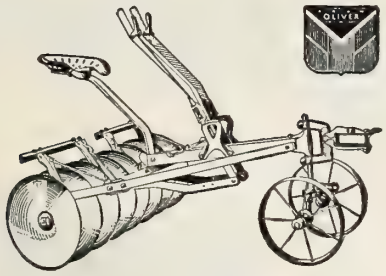
Oliver PB 3-Section Tractor Harrow

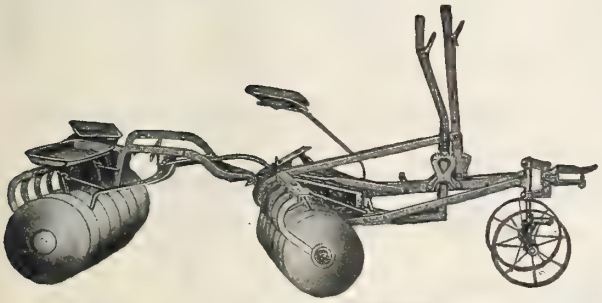
These are very strong and rugged implements well fitted for the hard work of spring-toothing. An inverted T-bar frame shod with a thick steel runner gives great strength and durability. Furnished with horse or tractor hitch. The levers are reversible and are set on the rear of the sections for horse use and on the front for tractor use.

HORSE HARROWS

9-Tooth, with handles and single tree	$16.00
15-Tooth, 2-section with draw bar	22.50
17-Tooth, 2-section with draw bar	24.00
23-Tooth, 3-section with draw bar	35.00
25-Tooth, 3-section with draw bar	37.00

OLIVER HDH DISC HARROWS—SINGLE AND DOUBLE





SINGLE DISC HARROWS

Regularly equipped with hard oil cups, rigid scrapers, 2 or 3-horse evener, seat, rigid pole, and neck yoke.

Number	Number of Discs	Cut in Feet	Size of Discs	Price
HDH-4	8	4	16 in.	$42.00
HDH-5	10	5	16 in.	46.50
*HDH-6	12	6	16 in.	50.00
HDH-4	8	4	18 in.	45.00
HDH-5	10	5	18 in.	50.00
*HDH-6	12	6	18 in.	58.00

Foretruck in place of tongue add $8.25

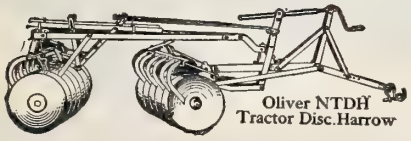
(*) Equipped with off-set irons and 3-horse eveners.

DOUBLE DISC HARROWS

Consists of single disc harrow and tandem complete, hard oil cups, rigid scrapers, 4-horse eveners, seat and forecarriage.

Number	Number of Discs	Cut in Feet	Size of Discs	Price
HDH-4	16	4	16 in.	$93.00
HDH-5	20	5	16 in.	104.00
HDH-6	24	6	16 in.	111.25
HDH-4	16	4	18 in.	103.75
HDH-5	20	5	18 in.	113.15
HDH-6	24	6	18 in.	120.60

OLIVER TRACTOR DISC HARROW



Oliver NTDH Tractor Disc Harrow

Number	Number of Discs	Size of Discs	Cut in Feet	Price
TDH-5	20	16 in.	5	$ 88.50
TDH-6	24	16 in.	6	95.30
TDH 7	28	16 in.	7	106.90
TDH-8	32	16 in.	8	120.00
TDH-5	20	18 in.	5	96.25
TDH-6	24	18 in.	6	106.25
TDH-7	28	18 in.	7	118.00

Harrows Can Be Furnished with 20-inch Discs at Additional Cost.

NASH-ACME COULTER HARROW

Flexible construction permits the harrow section to conform more closely to the shape of the surface of the soil.

No. 12F—12 coulters, 6½ ft. cut, 2-horse, 2-section	$ 30.00
No. 16F—16 coulters, 8½ ft. cut, 2-horse, 2-section	37.00
No. 6—6 coulters, 3 ft. cut, 1-horse, 1-section	18.00
No. 8—8 coulters, 4 ft. 4 in. cut, 1-horse, 1-section	23.00
No. X6—24 coulters, 18 ft. 6½ in. cut	120.00
No. X7—29 coulters, 18 ft. 7½ in. cut	130.00
Coulters for all	.85

Clark "CUTAWAY" FAMOUS DISK HARROW

CLARK "CUTAWAY" WONDER DISKER

The All Purpose Disk

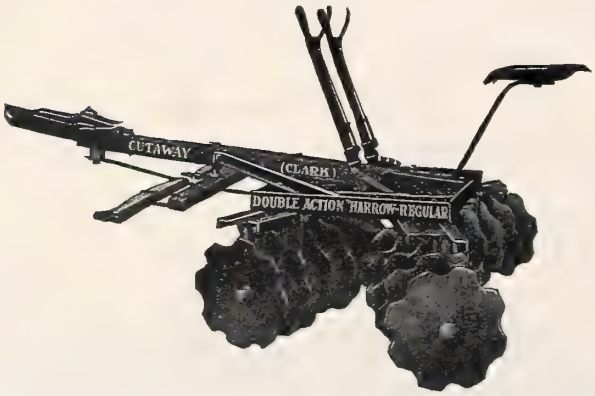
For reclaiming virgin brush land, bog land, cut-over wood land, etc.
For thorough and economical orchard tillage.
For difficult plowing and harrowing jobs.

FULLY EQUIPPED

8 Heavy 24-inch Disks	**Reversible Gangs**
Sturdy Weight Carriers	**Powerful Screw Control**
Rigid Scrapers	**Adjustable Hitch**

	Price
8 disks, 24-in. dia., 5½-ft. cut, steel frame, 685 lbs.	**$110.70**
Steel weight box, extra, 90 lbs.	**6.25**

DOUBLE ACTION DISK HARROWS FOR HORSES

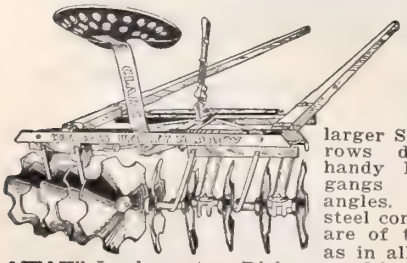


CLARK "CUTAWAY" Double Action Harrows are known for their light draft as well as for the amount and quality of work they do. Notice in the illustration how all four gangs of disks are attached to one main frame. These harrows are also made with 18-in. disks and different hitches can be obtained on any sizes. Prices on application.

All disks are 16 inches in diameter; harrows hitch 4 horses.

Size A-4, 16 disks, 4½-ft. cut, weight 480 lbs., price.....**$77.05**
Size A-5, 20 disks, 5½-ft. cut, weight 570 lbs., price..... **89.50**
Size A-6, 24 disks, 6½-ft. cut, weight 630 lbs., price..... **97.35**

CLARK ONE-HORSE DISK HARROWS



The **CLARK "CUTAWAY"** Utility Harrow has 10 14-in. disks, cuts 4 feet wide. The gangs can be reversed in the same manner as the larger Single Action Disk Harrows described above. One handy lever easily sets the gangs at different working angles. The frame is of angle steel construction and all parts are of the same high quality as in all other **CLARK "CUTAWAY"** Implements. Disks are of heat-treated cutlery steel with the edges forged sharp. Cutout disks are regular equipment but solid disks will be furnished at the same price.

10 disks, 14-in. dia., 4-ft. cut, hitch 1 h., 200 lbs., price..**$36.00**

SINGLE ACTION DISK HARROW

The gangs on the **CLARK "CUTAWAY"** Single Action Harrow can be swung end for end, so that the soil may be thrown either out or in.

One of the outstanding features of all **CLARK "CUTAWAY"** Harrows is the quality of the disks. They are made of better steel than used in ordinary harrow disks but their strength and wearing qualities are greatly increased by forging the edge and heat-treating.

Solid Disks can be furnished at same price as Cutaway.

All disks on **CLARK "CUTAWAY"** Harrows are guaranteed for three years against breakage.

Size	No. of Disks	Diam. of Disks	Width of Cut	Hitch	Wt.	Price
A-4	8	16-in.	4-ft.	2-h.	255	**$43.00**
A-5	10	16-in.	5-ft.	3-h.	295	**49.65**
A-6	12	16-in.	6-ft.	4-h.	350	**56.80**
A-7	14	16-in.	7-ft.	4-h.	460	**63.00**
X-4	8	18-in.	4-ft.	2-h.	300	**46.35**
X-5	10	18-in.	5-ft.	3-h.	350	**54.30**
X-6	12	18-in.	6-ft.	4-h.	430	**63.25**
Extra for Tongue Truck.....						**8.50**

CLARK "CUTAWAY" FLEXIBLE DOUBLE ACTION TRACTOR HARROW

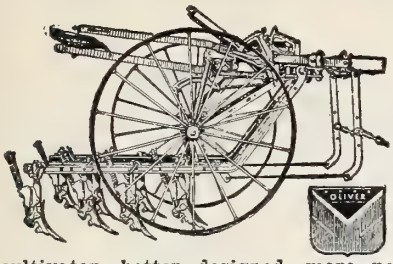
The Flexible Tractor Harrow is equipped with screw control only. Notice the stand for supporting the pole while hitching to the tractor. The rear section may be removed and the front section used alone if desired.

Our new Flexible Double Action Tractor Harrow is the result of our many years experience in building tractor disk harrows. While the frame permits extreme flexibility on rough ground and in turning, at the same time the harrow is very efficient and does high class work.

Size A-6, 24 disks, 16-in. dia., 6½-ft. cut, 755 lbs., price **$111.00**
Size A-7, 28 disks, 16-in. dia., 7½-ft. cut, 860 lbs., price **119.00**
Size X-6, 24 disks, 18-in. dia., 6½-ft. cut, price..... **120.00**
Size X-7, 28 disks, 18-in. dia., 7½-ft. cut, price..... **130.00**

SEND FOR CLARK'S SPECIAL CATALOGUE SHOWING FULL LINE OF FAMOUS CUTAWAY HARROWS

OLIVER NO. 35 CULTIVATOR



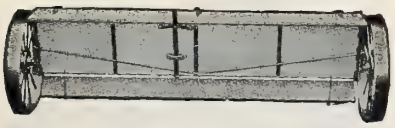
This Cultivator is built short and sturdy and the hitch is close and direct. The gangs extend back only a short distance beyond the wheels. This eliminates dipping and side-slipping and assures uniform work when going into depressions or over slight rises in the ground.

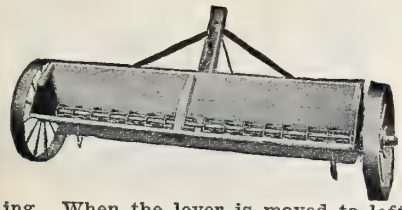
New and improved cultivator, better designed, more permanently constructed, easier operated—it is the Oliver No. 35.

Every farmer is entitled to have his cultivating work done easier. With the Oliver No. 35 it can be done both easier and better.

No. 35 6-shovel, pin break gangs	**$54.60**
No. 35 6-shovel, spring trip gangs	**60.40**
No. 35 8-shovel, pin break gangs	**56.70**
No. 35 8-shovel, spring trip gangs	**64.50**
Front Disc Attachment 12-in	**3.90**
Tobacco Hoe Attachment	**10.50**

GRITCO BROADCAST LIME DISTRIBUTOR





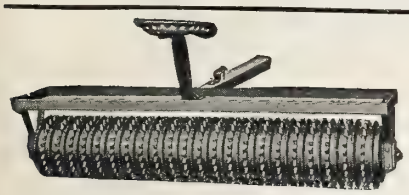
Truss rods on both sides, with a brace rod and board in the center, make an exceptionally rigid construction. There can be no sag or warp. Axle and bearings cannot get out of alignment, no matter how heavy the load or rough the land.

Hopper is fitted with two screens to sift out lumps which might cause breakage or clogging.

The cut-off slide moves easily in a groove in the cast-iron bottom plates. When the cut-off lever is moved to right, all the feed holes are open for broadcasting. When the lever is moved to left of center, three holes only are open for drilling. Box is full eight feet long; holds about ten bushels; will sow from 200 to 4,000 lbs. per acre, depending on condition and kind of fertilizer.

This Lime Sower is cheap only in price. We use the very best material obtainable. The few parts and simplicity of construction enable us to make a superior machine at a reasonable price.

Stock size: 8-foot Box with pole, **$55.00;** 6-foot Box with Shafts, **$55.00;** Doubletrees and Yoke, add **$3.40.**

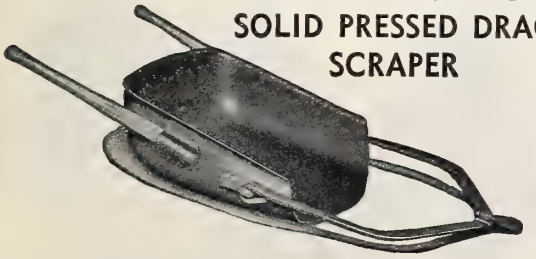


Lean Sprocket Pulverizer

Single Sections

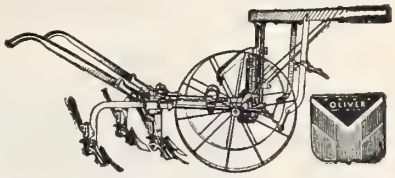
8 Ft., 975 lbs..**$55.00**
Less Trees and Yoke

AMERICAN ROUND BACK SOLID PRESSED DRAG SCRAPER



Size	Capacity	Weight	Price
No. 1	7 cu. ft.	97 lbs.	**$9.20**
No. 2	5 cu. ft.	86 lbs.	**8.70**
No. 3	3 cu. ft.	76 lbs.	**8.20**

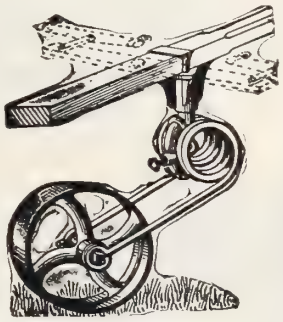
OLIVER NO. 2 IMPROVED CULTIVATOR



A popular and well-established favorite where either large or small acreages of cultivated crops are raised. Easy on the man because of the great ease with which it is handled. Lifting the gangs or shifting them to or from the row is an action almost without effort. Easy on the horses because of light draft, and there is no neck weight. There is not a single unnecessary part; there is nothing to get out of order.

No. 2 FEC Imp. 6-shovel, spring trip gangs, pipe beam	**$49.20**
No. 2 FO Imp. 4-shovel, spring trip gangs, pipe beam	**45.25**
No. 2 HO Imp. 6-shovel, pin break gangs, pipe beam	**43.25**
No. 2 LPO Imp. 8-shovel, pin break gangs, channel beam	**40.30**

KEYSTONE TONGUE SUPPORT

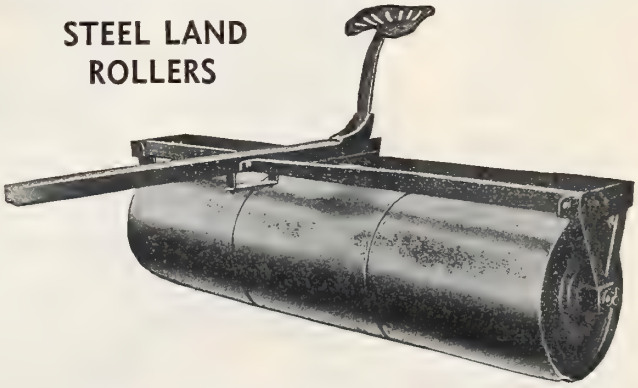


For Harvesting Machinery and Disk Harrows

This Tongue Support is simple and light in weight. The springs are made of best ⅝-inch spring steel. The coils are 4½ inches in diameter, and have arms extending 12 inches. The wheel is 11½ inches high, with 2¾-inch tread, thus assuring a light draft. No holes need to be bored in the tongue to fasten this support, thus allowing the tongue all its strength.

Price, $5.00.

STEEL LAND ROLLERS



	Sections	Length feet	Diameter inches	Weight lbs.	Special Price.
No. 105½	2	8	24	550	**$39.00**
No. 106½	3	8	24	585	**42.25**

Price does not include Doubletrees and Neck Yoke.
Doubletrees and Neck Yoke **$3.40**

AMERICAN WHEEL SCRAPERS

Prices subect to stock on hand.

	Size of Bowl in. in. in.	Height of Wheels in.	Tires in. in.	Axle in.
No. 1 — 9 Cu. Ft.	35x34½x11½	36	2¾x¼	1⅜
No. 2 —13 Cu. Ft.	37x38 x13½	40	3 x⅜	1¾
No. 2½—14 Cu. Ft.	41x38 x13½	44	3 x⅜	1¾
No. 3 —16 Cu. Ft.	41x44 x16	46	3 x¾	1¾

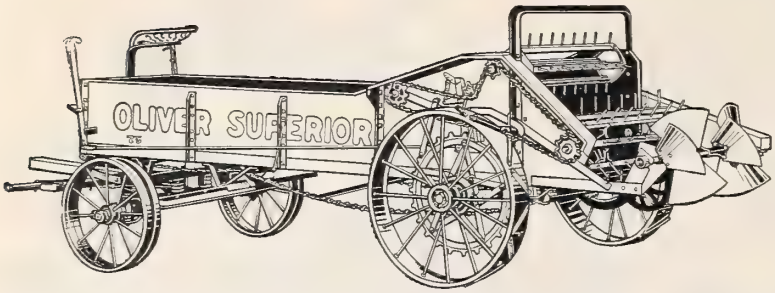
No. 1 —Weight, 450 lbs., price	**$73.00**
No. 2 —Weight, 600 lbs., price	**92.00**
No. 2½—With Snatch Rod, weight 700 lbs., price	**97.00**
No. 3 —With Snatch Rod, weight 750 lbs., price	**105.00**

Wood Doubletrees and Neck Yoke, $6.00 extra.

AMERICAN FRESNO SCRAPERS

Three Sizes	Width	Weight	Price
No. 1—4-Horse	5 -ft.	315 lbs.	**$36.00**
No. 2—2 or 4-Horse	4 -ft.	277 lbs.	**34.00**
No. 3—2-Horse	3½-ft.	250 lbs.	**33.00**

OLIVER SUPERIOR SPREADER No. 75



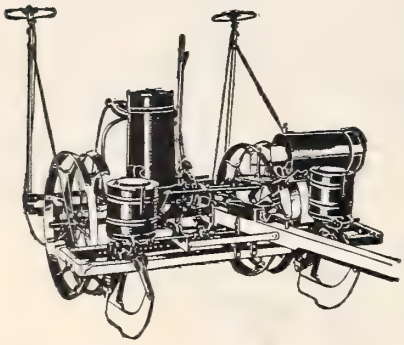
Has the biggest capacity of any Spreader, yet is easily pulled by two horses.

Exclusive features found on no other Spreader. Uses Hyatt Roller Bearings.

A lime sowing attachment for the most efficient distribution of lime can be furnished. Every desirable feature in spreader construction has been included in the new Oliver Superior 75 Spreader. Write for special illustrated circular.

No. 75 Oliver Superior Spreader with either 2-horse hitch or tractor hitch, with wide spread attachment..... $157.50
Brake attachment, complete..... 8.75
3 horse hitch instead of 2 horse hitch, add. 4.50

OLIVER SUPERIOR PLANTERS



Are accurate and reliable. The 9A Planter and 9A Drill give you better stands. Plants accurately. No. 9A check wire Planter, adjustable for rows from 28 inches, every two inches to 48 inches apart. No. 9A Drill will drill corn 10, 12, 18, 20 and 26 inches apart in rows 28 to 48 inches. Thirty-inch wheels; open and closed tires.

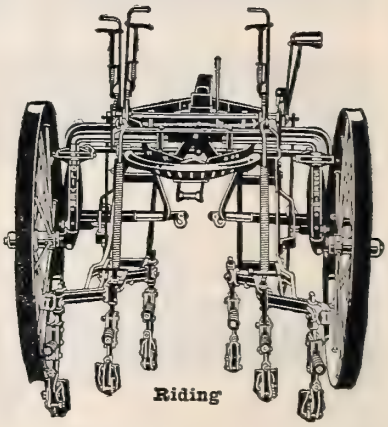
No. 9A—Runner Planter with check wire $67.50

No. 9A—Runner Drill Planter, no check wire 55.00

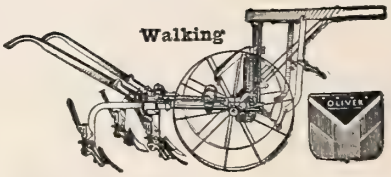
No. 9A—Disc Planter, with check wire 70.00

Fertilizer Attachment, add 25.00

OLIVER SUPERIOR CULTIVATORS



Riding



Walking

No. 957½—6 Shovel, spring trip, round shank open sleeve, $48.00.

No. 959½—8 Shovel, spring trip, round shank open sleeve, 51.00.

No. 123—4 Shovel, spring trip, parallel beams $40.00

No. 125—6 Shovel, spring trip, parallel beams $43.75

OLIVER SUPERIOR GRAIN DRILLS

No word we can say could make as deep an impression on the public as the widespread sale enjoyed by this, the best known drill on the market. It can be supplied in many different sizes, so we only mention those mostly used.

No. 26—Fertilizer Plow, for Disc Drills or Spring Hoe, with drag chains. No seat. agitator or scrapers. With Grass Seeder.

8x8 Disc, 2-Horse Hitch, 1 Pole $138.56
10x8 Disc, 2-Horse Hitch, 1 Pole 158.31
9x7 Disc, 2-Horse Hitch, 1 Pole 147.00
10x7 Disc, 2-Horse Hitch, 1 Pole 158.62
11x7 Disc, 2-Horse Hitch, 1 Pole 165.25
12x7 Disc, 3-Horse Hitch, 2 Poles 177.56
13x7 Disc, 3-Horse Hitch, 2 Poles 190.44
8x8 Spring Hoe, 2-Horse Hitch, 1 Pole 133.56
10x8 Spring Hoe, 2-Horse Hitch, 1 Pole 152.06
9x7 Spring Hoe, 2-Horse Hitch, 1 Pole 141.37
10x7 Spring Hoe, 2-Horse Hitch, 1 Pole 152.37

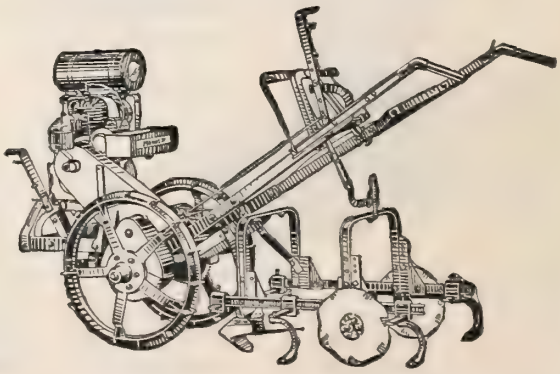
Large Sizes Can Be Furnished with Tractor Hitch.

PLANET JR. GARDEN TRACTOR

The remarkable efficiency and economy of operation of the Planet Jr. are due both to the engineering skill and practical farming knowledge of its designers; and to the integrity of the material and workmanship with which it is built.

Machines in the field are proving profitable investments for their owners. Stop and think what it would mean to you to be able to do from four to fifteen men's work in the same length of time—and to do it better than is possible by hand.

PLANET JR. GARDEN TRACTOR

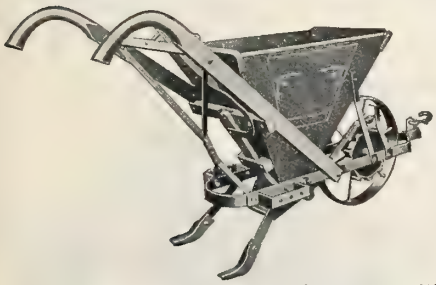


WRITE FOR CATALOGUE AND PRICES

Wood Frame Harrow, Steel Lined

16-Tooth	Harrows	$18.00
18-Tooth	Harrows	19.00
20-Tooth	Harrows	20.75
22-Tooth	Harrows	22.50
24-Tooth	Harrows	25.00

Farmers' Favorite One-Horse Fertilizer Distributor



Commercial Fertilizer can be sown with this machine in quantities of from 200 to 2400 pounds per acre.

Price $11.00

NO. 68 STOVER COMBINED GRINDER

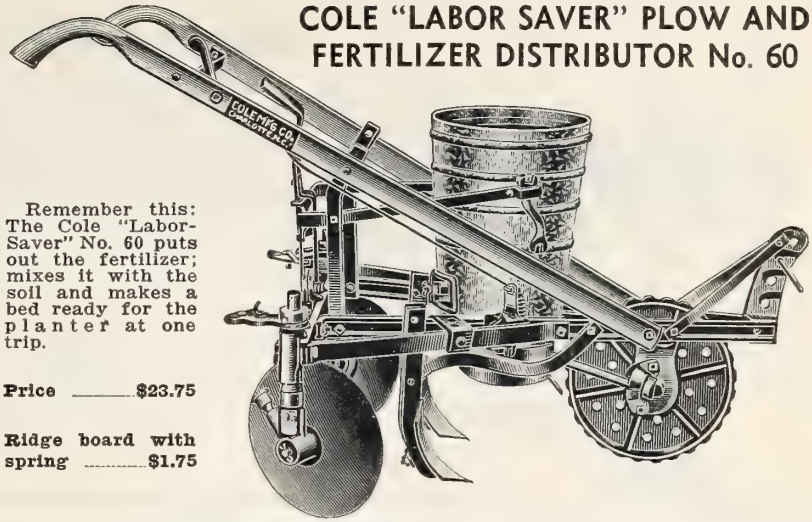
Price $100.00

SPECIFICATIONS

Power required	8 to 20 H. P.
Speed	600 to 1,000 R. P. M.
Weight	1,000 lbs.
Pulley, regular	10 in. x 8 in.
Burrs, diameter	8 in.

2 Set Burrs

COLE "LABOR SAVER" PLOW AND FERTILIZER DISTRIBUTOR No. 60



Remember this: The Cole "Labor-Saver" No. 60 puts out the fertilizer; mixes it with the soil and makes a bed ready for the planter at one trip.

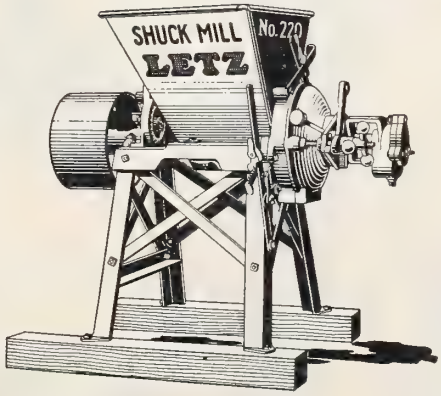
Price $23.75

Ridge board with spring $1.75

COLE PLAIN VIEW PLANTER NO. 11

No. 11—PLAIN PLANTER	$22.50
No. 12—FERTILIZER PLANTER	26.50
SPRING COVER	1.75

The Cole Plain View Planter is the most wonderful invention in seed planters. The perfect seed planter. Most accurate and reliable corn planter ever made.



LETZ No. 220 HEAVY DUTY SHUCK MILL

10 Inch Grinding Plates

This mill has big capacity combined with great strength designed especially for large dairymen, stockmen or country custom mill.

Hopper is provided with separate compartment and separate slide gate to regulate flow of small grains in the larger compartment.

Grinding plates, double face, 10½ inch diameter.

Drive Shaft, 1 11/16 inch diameter.

Pulleys, all 8-inch face, 8, 10, 12, 14, 16 and 18 inch diameter.

Speed recommended (depending upon the amount of power available), 750-1200 R. P. M.

Letz No. 220 Shuck Mills are regularly built with B-31 coarse plates in mill, and fine plates B-34 attached as extra plates to crate.

Materials	15-20 H. P. Speed of Mill 700-750 R. P. M.	25-30 H. P. Speed of Mill 800-1000 R. P. M.
Snapped corn	4500 to 7000	6000 to 10000
*Kaffir corn heads	3500 to 5000	4000 to 7000
All small grain	2000 to 3000	2500 to 4000

*Kaffir corn must be headed closely, with not more than 4 inches of stem. Not for machine headed kaffir corn.

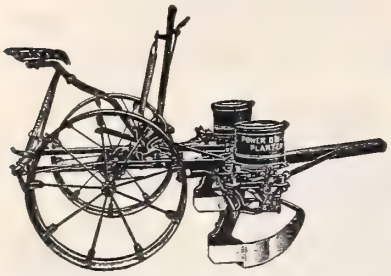
Price $65.00

NOS. 106, 108, STOVER SPECIAL FEED GRINDING MILLS

For Grinding Dry Ear Corn, Shelled Corn, and All of the Small Grains.

Capacity, from 3 to 6 bushels per hour per horse power, depending upon the grinding condition of the grain and the fineness of the feed.

No.		Speed R. P. M.	Pulley	Horse Power Required	Weight	Price
106	6 in.	300 to 500	12x4 in.	2 to 5	200 lbs.	$28.00
108	8 in.	400 to 600	12x6 in.	3 to 8	275 lbs.	38.25



MASSEY-HARRIS POWER DRIVE CORN PLANTER

Our variable drop device, regularly supplied, enables the operator to vary the number of kernels in each hill according to the fertility of the soil. A lever in front of the seat can be shifted to drop 2, 3 or 4 kernels in the hill.

The round-hole plate we use for all kinds of corn kernels.

Regular equipment of check rower runner planters includes:—Round or stub type runner, as ordered, open or concave tire wheels, optional. Also supplied with automatic reel, anchor stakes. Eighty rods of wire, and disc marker.

Drill planters are furnished with disc marker.

All runner planters are shipped set at 3 feet 6 inches and adjustable from 3 feet 2 inches to 4 feet 0 inches.

Regular equipment of disc planters is the same as for runner planters. Disc planters come set at 3 feet 6 inches, but are adjustable from 3 feet 2 inches to 3 feet 10 inches.

Style No.	Description	Runners	Wheels	Weight	Price
No. 2 RH	Check Rower, Drill and Foot-Drop	Round	30"	522	$78.00
No. 3 RH	Drill and Foot-Drop	Round	20"	416	63.00
No. 6	Drill Only	Round	30"	355	63.00
	Fertilizer Attachment			100	24.75
	Step Drop Attachment				2.25
	Automatic Marker				

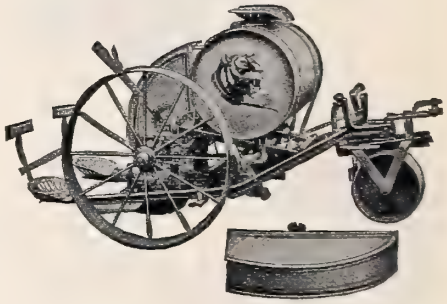
THE IMPROVED TIGER TRANSPLANTER

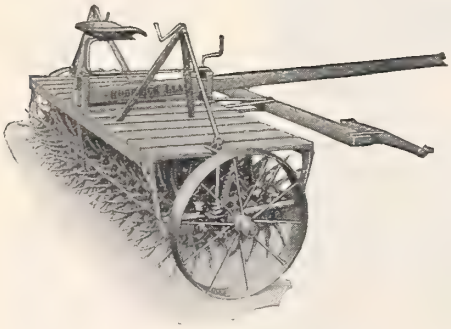
The Tiger Transplanter is adaptable to all conditions of planting and spacing; adjustable to all conditions of soil and ground—on hillside or level, will space plants from 14 to 64 inches apart, and operates as readily with either horse or tractor power.

Driver and two planters can set five acres a day without undue strain or hurry. Here is a definite, money-saving implement that will handsomely repay every owner.

Almost human in its operation here is one of the greatest boons to transplanting ever developed. Eliminates packing around the plant; eliminates pouring water on the surface to bake and crack the earth around the plant.

Price **$95.00**
Additional for Double Wheel Fore Truck for Planting Sweet Potatoes **10.50**
Pertilizer Attachment **18.00**





RODERICK LEAN ROTARY HOE

WITH CULTIVATING DEPTH REGULATED FROM SEAT

The Roderick Lean Rotary Hoe will cut your cultivating costs in half. Any boy with a team and a Roderick Lean Rotary Hoe can cultivate and weed as many acres in a day's time as can two men and two teams using other types of cultivating machines.

Because it is light draft, easy to handle and covers so much more ground in a day's time, it can be used frequently and effectively during that critical time when the crop is just getting its growth. Built in the most substantial way, to render years of good service. Split wood bearings at the ends simplify replacement of worn parts. Three bolts will release bearings at end of any gang.

SIZES AND WEIGHTS

7 feet	2-horse	Weight 801 pounds	Without Neck Yoke..... $75.00
7 feet	3-horse	Weight 839 pounds	With Neck Yoke..... 83.60

Tongue Truck if desired, additional..... 13.75

GRITCO HAND CORN PLANTER

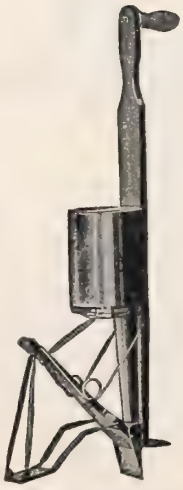
There is no chance of cracking the corn, beans, or other seed, because of the Chinese bristle brush cut-off. Slide quickly adjusted for different sized seeds. Galvanized iron hopper.

Each **$2.25**

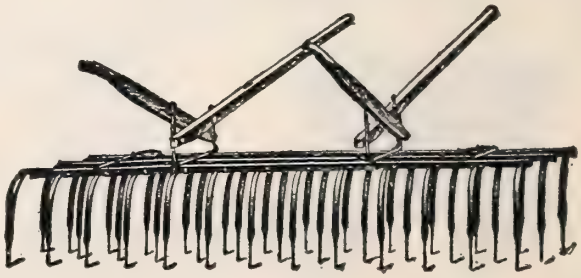
ACME HAND CORN PLANTER

ITS ROTARY SLIDE has a motion two ways—back and forth. It prevents skips. No matter how short the stroke, the pocket is pushed into the corn and back into the conveyor tube.

Each **$2.75**

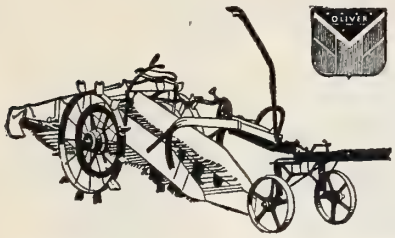


GRITCO WEEDERS



	Price
7½-foot Gritco Flat-Tooth Weeder	$13.00
9 -foot Gritco Flat-Tooth Weeder	16.50
Extra Teeth	.25
12-foot Riding Weeder, with Pole. No double trees or neck yoke	$40.00
Regular Trees and Yoke add	2.75
Extra Wide Trees and Yoke add	3.50

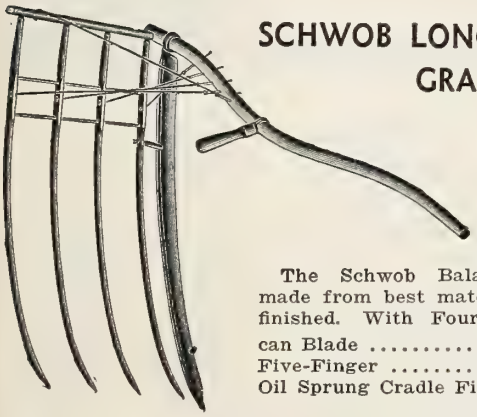
ASPINWALL POTATO DIGGER



The Aspinwall Digger is favorably known throughout the potato growing sections of the world, enjoying high prestige, as it is unsurpassed in material, workmanship, serviceability and long life.

6-Foot Digger.$130.00

SCHWOB LONG SWEEP GRAIN CRADLE



The Schwob Balance Cradle is made from best material and nicely finished. With Four-Finger American Blade $6.50
Five-Finger 7.00
Oil Sprung Cradle Fingers, each .40

GENUINE NO. 2 HAINES ROW MARKER

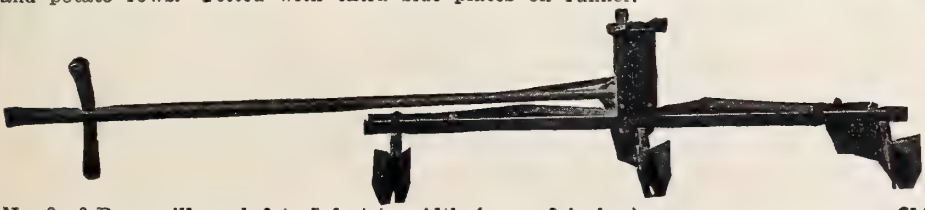
The Marker is of light draught and easily controlled by a light boy as it is not necessary for operator to dismount at ends of furrows to lift one pound.

The Marker is a perfect covering or listing machine, covering one or more rows as may be required and is under perfect control of operator by use of lever that may be adjusted while the machine is in motion.

Two-Row Marker $40.00
Three-Row Marker 45.00

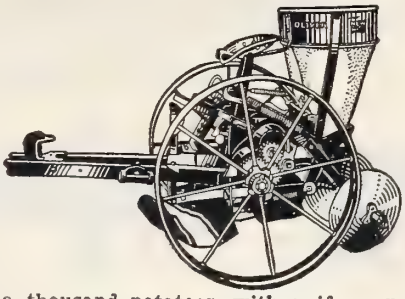
VIRGINIA ROW MARKER

Very useful for farmers and gardeners for marking corn and potato rows. Fitted with extra side plates on runner.



No. 2—2 Row, will mark 3 to 5 feet in width (every 3 inches).....$14.50
No. 3—3 Row, will mark 3 to 5 feet..... 17.50

NEW ASPINWALL NO. 5 POTATO PLANTER



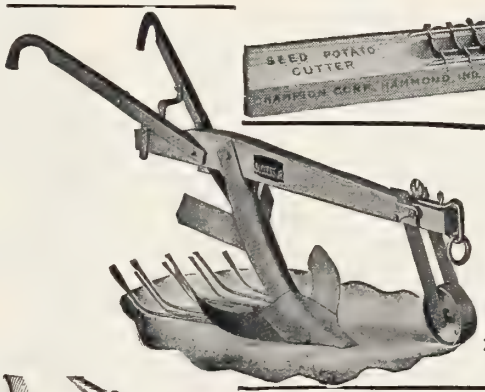
This is indeed the most perfect potato planter ever built—it leads everything in the field—and has made potato planting a science—is absolutely accurate in every degree at an immeasurable saving of time and labor.

The improvements in the pickers and concaves have made such excellent results possible — the misses have been reduced to about one in a thousand potatoes, with uniform properly cut seed.

No. 5 Plain Planter.....$100.00
No. 5 Planter with fertilizer attachment..... 130.00

O. K. CHAMPION HAND POTATO CUTTER

Price $5.00



SUCCESS JUNIOR POTATO DIGGER

Price....$12.50.

Master's Rapid Plant Setter

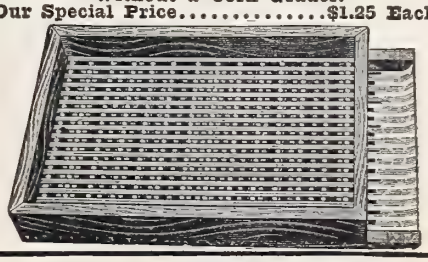
All kinds of Plants, such as Cabbage, Tobacco, Tomatoes, Cauliflower, Strawberries, Sweet Potatoes, Sugar Beets, etc. The only Hand Mechanical Plant Setter on the market; is built on scientific principles throughout. Its conical jaws are made of heavy sheet steel and the main body or water reservoir and plant tube of heavy tinned plate. The water valve is of brass with rubber packing. The valve rod and trip spring are of steel wire; thumb button and other fittings are also of brass. The machine is well put together with rivets and solder and should last for years.

Price, each..... **$6.00**

Perfection Corn Grader

No One Who Plants Corn Can Afford to Be Without a Corn Grader.

Our Special Price.....$1.25 Each.

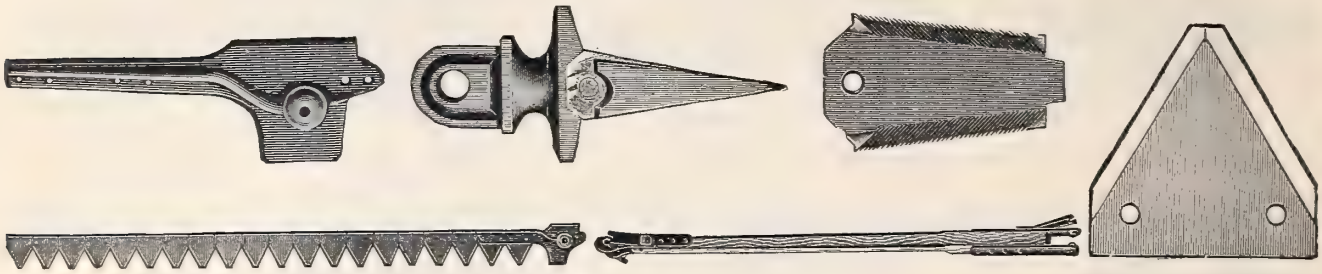


THREE ROW SHOVEL MARKER

3-Row Shovel Marker...$16.00

Mower and Binder Extras to Fit Leading Machines

Parts for Older Machines Can Also Be Supplied



By following the name of machine across the page, you can find correct number of part wanted.

WHEN ORDERING Mower Knives and Sickles always state number of Knife Head, and how many cutting sections on Knife.

Name of Mower	No. of Knife Head	Section	No. of Guard	No. of Guard Plate	No. of Pitman	No. of Pitman Box	Price Pitman Box
Adriance (Buckeye)	557F	745	3087D	716½C	3032H	61K	$ .80
Champion, New Draw Cut; 1905-12	A870	MA333	A881	H253	Steel	AA1018	1.60
Champion Imp. and V. L.; 1909 since	A5792	MB333	AA881	H253	Steel	A1133	1.60
Deere, Dain Mower; 1895-1919	Z45	Z5059	Z1	Z5110	Z5076	Z205	.80
Deere Mowers; 1923 and since	Z502	Z5571	Z463H	Z5110	Z5661	Z513	.80
Deering, Ideal, Steel Pitman	F123	D1140	D442	D1043	Steel	D334	1.00
Deering, Ideal, Wood Pitman	D463	D1140	D698	D1739	D2907	D608	.65
Emerson, Standard; 1900 and since	M203	M193S	M614	M301S	Z397	M517	.80
Emerson, 6 and 7-ft.; 1909 and since	M204	M193S	M614	M301S	Z397	M517	.80
Johnston; 1909 and since	2211	920	1811	912	2228C	2207C	.65
Massey-Harris No. 11, one horse	919	920	1811	912	304X	256	.70
Massey-Harris No. 20 and 21	M802	M2492	M803	M2494	7120	M800½	.70
Massey-Harris No. 22	M802	M2492	M803	M2494	7120	M800½	.70
McCormick; 1888-1909	M139	MA333	M462	M219½	M392	M317	.65
McCormick; 1910 and since	M139	MB333	MD989	MA990	M392	MD317	.65
McCormick-Deering; 1923 and since	MA139	MB333	MD989	MA990	M392	MD317	.65
Milwaukee, Chain Drive	PG6	PG155	PK5S	P201S	PV290	PJ50	.60
Moline-Adriance	557F	745	3087H	716½C	3032H	61K	.80
Osborne, Columbia; 1902-05	K284	K223	K280	K322	Steel	K826	.80
Osborne, Nos. 1, 2 and 3; 1905, since	K774	5406	K790	11565	J9439½	KA1158	.80
Thomas-Crown; 1888-1923	6	1077	03	1046	1069	25	.70
Thomas-New Crown; 1924 and since	CM402	1077	CM3	1238	1245	CM25	.70
Wood-Admiral; 1907-14	2862	3410	L	9571	8965	2941	1.20
Wood, Vertical Lift; 1925, since	K366	3410	L	9571	K3434	AK367	1.20
Name of Binder							
Adriance No. 7; 1915 and since	JA102	A84	2090	716½A	J1230		
Champion, Improved; 1909 and since	2564	G241	3025	G167	Steel		
Deere; 1914 and since	HZ493	B4053	HZ147	HZ5183	H29140		
Deering, Ideal; 1898 and since	H877	E1328	286	E1330	H1255		
Johnson-Continental	K306	L787	K307	K364	K118C		
Massey-Harris; 1915 and since	S213	336A	S220	D157	S1032		
Milwaukee No. 12; 1907 and since	SN342	SL877	SN37	SM681	SN844		
Moline; 1915 and since	JA102	A84	2090	716½A	J1230		
McCormick; 1911 and since	B756	762	HA495	H507	B763		
McCormick-Deering	BA756	762	HA495	H507	BA763		
Osborne; 1915 and since	C1044	11259	C752	11601	J9048		
Wood, New Century; 1917, since	H2139	7268	H2620	H2620	C3373		

PRICES

Complete Knives, 4½ feet	$2.50	Mower Guards	.30
Complete Knives, 5 feet	2.75	Binder Guards	.30
Complete Knives, 6 feet	3.00	Guard or Leger Plates	.05
Complete Knives, 7 feet	3.25	Wood Mower, Pitman's (Massey-Harris)	3.25
Complete Knives, 8 feet	3.50	Wood Mower, Pitman's, all others	1.75
Knife Heads, Steel	.90	Wood Binder, Pitman's (McCormick)	.90
Knife Heads, Malleable	.50	Wood Binder, Pitman's, all others	.75
Sections, per box of 25	1.50	Pitman Boxes (priced above).	
Sections, each	.08	Guard Bolts	.05
Rivets, per pound	.15	Binder Canvas Slats	.10

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

Mower and Binder Extras For Leading Machines

DAIN-DEERE Z5063

Name	No. of Pitman Bolt		No. of Pitman Strap		No. of Knife Clip	No. of Knife Cap		No. of Wearing Plate	
	Knife End	Box End	Knife End	Box End		Front	Rear	Under Clip	Under Cap
Adriance Buckeye	602C	607B	600-1E	605C	3093	3084	3086A	3094A	3098C
Champion Draw Cut	H609				A886	A816	A1163	A5859	A5857
Champion Improved	A5834				A1155	A1136	A1132	A5858	A5800
Deere-Dain	Z5040	Z5035	Z220-5	Z226	Z6	Z30	Z32	Z5064	Z5063
Deere	Z5040	Z5961	Z392-3	Z516	Z6060	Z6010	Z488	Z5925	Z5685
Deering	D2591	D2592	G211-2	G210	D927	D826	D984	D3012	D1455
Deering, 6 and 7 foot	D3079	D3078	G211-2	G210	D927	D826	D984	D3012	D1455
Emerson	Z381	Z382	M417-8	M568	M503	M528	M505		M665
Johnson	2251	2252	2208-9C	2210	1814C	1885	926	1813	904
McCormick	M483	M483½	M147 M304	M315 M316	M463	M290	M652	M468	M490
McCormick-Deering	M483	M483½	M147 M304	M315 M316	M1000	M1239	MA652	MA468	MA490
Milwaukee Chain Drive	PG175	PG175	PM34-5	PL9½	PJ1	PH2	PM3	PK156	PG157
Moline	602C	607B	600-1C	605C	3093	3084C	3086A	3094A	3098C
Osborne	9959½	9960½	8131-2	8130	K665	K494	K792	13461	10009
Thomas Crown	1004	1005	55-6	57	317	10-CM329	B40		1091
Thomas New Crown	1117	1005	55-6	57	CM352	1219	B40	1239-40	1091
Wood, Admiral	A2148	9534	2853 2964	2834 2835	2865	2761	2959	K3139	K3138
Wood, Vertical Lift	K3435	K3460	K3438 K3439	K3433	2865	K364	K306	K3139	K3423
Massey-Harris	MA1706	M2571	M2489 M2490	M2491	M2292	M799	M2515 M2516	M2277	M2278

Pitman Bolts... .15. Pitman Straps... .30. Knife Clips ..... .15. Wearing Plates.. .15. **Knife Caps on Application.**

GEARS AND PINIONS

Dain—
- Z125, Bevel Gear $3.00
- Z130, Bevel Pinion ..... .70

Deering Ideal—
- D356, Bevel Gear 3.50
- D458, Bevel Pinion ..... .75

Deering New Ideal—
- D864, Bevel Gear 2.50
- D865, Bevel Pinion ..... .75
- D730, Spur Pinion ..... .85
- D795, Bevel Gear 2.50
- D989, Bevel Gear 2.50

Emerson—
- M522, Bevel Pinion ..... .75

McCormick New 4—
- M633, Spur Pinion 1.15
- M635, Bevel Pinion ..... .75
- M813, Bevel Gear 3.00

McCormick New Big 4—
- M837, Bevel Gear 3.00
- M838, Bevel Pinion ..... .70
- MA814, Clutch 1.00
- M1400, Clutch 1.25

McCormick No. 6 Vertical—
- M1406, Spur Pinion 1.15
- M1407, Bevel Gear 3.25
- M1408, Bevel Pinion ..... .75

Thomas—
- 65, Bevel Pinion ..... .75
- 301, Bevel Gear 2.25
- 302, Triple Gear 4.25
- 303, Drive Gear 3.50
- 20, Drive Gear 3.75

Wood—
- 2525, Bevel Gear 3.70
- 2791, Bevel Pinion 1.15
- 2790, Spur Pinion 1.25

CORN PLANTER RUNNER

SINGLE ROW PLANTERS

	Each
Rock Island	$2.00
Empire	2.00
Hench & Dromgold Daisy	2.00
Hoosier	2.00
Keystone, No. 6½	2.00
Case, Farmers' Friend	2.00
Black Hawk	2.00
Avery, No. 27	2.75

FOR DOUBLE ROW PLANTERS

	Per Pr.
For Janesville, Nos. 1, 5, 7, and 8	$4.50
For Black Hawk, No. 1	4.40
For Black Hawk, No. 3	4.40
For Black Hawk, Nos. 4 and 5	4.40
For Deere, No. 999, With Blocks	5.00
For New Way	5.00
For Black Hawk, No. 15, With Block	5.00
For Deere, No. 9	4.40
For International, With Block	5.00
For J. I. Case, No. P344	4.40
For Superior, With Block	5.00
For Superior, Without Block	4.40
For Hoosier, No. 10	4.40
For Hoosier, No. 11	4.40
For Tiger Transplanter, Shallow, each	4.00
For Tiger Transplanter, Deep, each	4.50
For Case Transplanter	4.50

In ordering Planter Runners always state, as near as possible, the year Planter was made; whether steel or wood frame; or, better still, a diagram showing position of hole and size of bend.

CHECK-ROWER WIRE

FOR LEADING PLANTERS

We carry in stock the following sizes:

3 ft. 3 ft. 2 ins. 3 ft. 4 ins. 3 ft. 6 ins. 3 ft. 8 ins. 3 ft. 10 ins. 4 ft.

The above comes in 10, 20, 40 and 80 rod rolls. **Per rod** 8c

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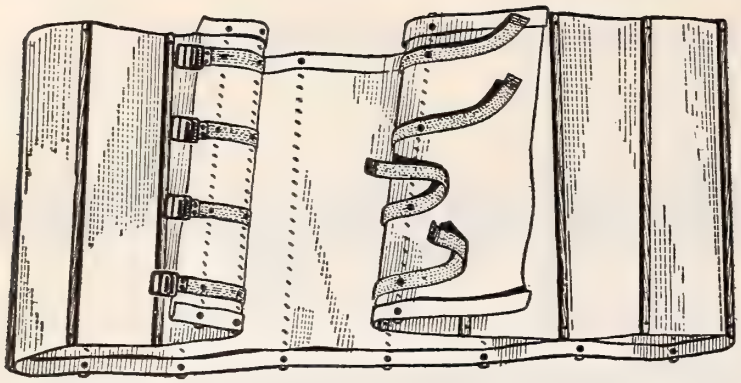
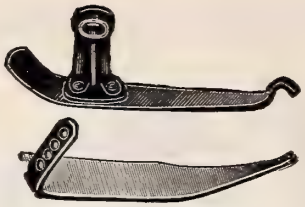


CONVEYOR CANVASES

No.		Year	Price
	ADRIANCE		
J1402	Upper Elevator, 90x45½", No. 3 Left Hand Binders	1906-15	$5.60
JA1401	Lower Elevator, 90x52", No. 3 Left Hand Binders..	1906-15	5.85
2223A	6 ft. Platform, 137x41", No. 2 R.H. & 3 L.H. Binders	1897-15	7.75
2224A	7 ft. Platform, 158x41", No. 2 R.H. & 3 L.H. Binders	1897-15	9.00
	CHAMPION		
KA3145	Lower Elevator, 77x51½", Improved Binders.....	1909-	4.75
KA3144	Upper Elevator, 96x43¾", Improved Binders.....	1909-	5.10
KA3147	6 ft. Platform, 137x43¾", Improved Binders.....	1909-	6.60
KA3148	7 ft. Platform, 157x43¾", Improved Binders.....	1909-	7.65
KA3149	8 ft. Platform, 185x43¾", Improved Binders.....	1909-	8.70
	DEERE		
HZ9040	6 ft. Platform, 135x44¾", Light Draft Binders....	1911-	6.60
HZ9041	7 ft. Platform, 159x44¾", Light Draft Binders....	1911-	7.65
HZ9044	Upper Elevator, 93x46⅞", Light Draft Binders....	1917-	4.75
HZ9043	Lower Elevator, 96x50⅞", Light Draft Binders....	1917-	5.15
	DEERING		
HA4562	Upper Elevator, 90x47", Ideal Binders.....	1908-	4.75
HA1775	Lower Elevator, 89x50⅜", Ideal Binders.....	1899-	5.15
HA1772	6 ft. Platform, 133½x43¾", Ideal Binders.....	1899-	6.60
HA1773	7 ft. Platform, 157½x43¾", Ideal Binders.....	1899-	7.65
	McCORMICK-DEERING		
BD65	Upper Elevator, 91x47¼", R. & L. Binders.....	1901-	4.75
BA66	Lower Elevator, 97x51", R. & L. Binders.....	1901-13	5.25
BB835	Lower Elevator, 89x51", R. & L. Binders.....	1911-	5.15
BB466	5 ft. Platform, 110x45", R. & L. Binders.....	1901-	6.00
BC467	6 ft. Platform, 134x45", R. & L. Binders.....	1901-	6.60
BB468	7 ft. Platform, 158x45", R. & L. Binders.....	1901-	7.65
	MASSEY-HARRIS		
A1260	6 ft. Platform, 138x39", No. 5 Binders.....	1915-	7.75
A1261	7 ft. Platform, 162x39", No. 5 Binders.....	1915-	9.00
S1107	Lower Elevator, 88x53", No. 5 Binders.....	....	5.85
S1106	Upper Elevator, 84x50", No. 5 Binders.....	....	5.60
	MILWAUKEE		
SB400	Upper Elevator, 90x52½", No. 10 Steel Jr. (SA400).	1899-20	5.85
SA401	Lower Elevator, 92½x52½", No. 10 Steel Jr. (S401)	1889-20	5.85
SA402	6 ft. Platform, 136x42½", No. 10 Steel Jr. (S402)..	1889-20	7.75
SA404	7 ft. Platform, 160x42½", No. 10 Steel Jr. (S404)..	1892-20	9.00
SN812	Upper Elevator, 88x47½", No. 12 Binders.....	1907-	5.60
SN813	Lower Elevator, 83x52½", No. 12 Binders.....	1907-	5.85
SP817	6 ft. Platform, 137x42⅝", No. 12 (works for SN817)	1902-	7.75
SM818	7 ft. Platform, 158x42½", No. 12 (works for SL818)	1906-	9.00
	MOLINE		
JD1401	Lower Elevator, 90x52", Nos. 4, 6, 7 and 25 Binders	1913-	5.85
JD1402	Upper Elevator, 90x45½", Nos. 4, 6, 7 & 25 Binders	1913-	5.60
J1450	6 ft. Platform, 137x41", Nos. 4, 6 and 7 Binders....	1913-	7.75
J1451	7 ft. Platform, 158x41", Nos. 4, 6 and 7 Binders....	1913-	9.00
	OSBORNE		
CA2022	Upper Elevator, 88x42¾", New Osborne Binders...	1909-	4.75
CA2023	Lower Elevator, 90x48½", New Osborne Binders...	1909-	5.25
CA2008	6 ft. Platform, 134x42¾", Col. & New Osb. Binders	1896-	6.60
CA2009	7 ft. Platform, 158x42¾", Col. & New Osb. Binders	1896-	7.65



SHOE SOLES

SHOE SOLES FOR MOWERS

ADRIANCE
3099D, Inner, Nos. 7 and 8.....$1.20
3073G, Outer, Nos. 7 and 8..... .50

CHAMPION
H381, Inner Draw Cut..... .95
H483, Outer Draw Cut..... .85
A6207, Inner, Improved Mower..... .85
A5847, Outer, Improved Mower..... .75

DEERE-DAIN
Z5134, Inner, Dain..... .90
Z5231, Outer, Dain..... .60
Z5786, Inner, Deere..... .90
Z5331, Outer, Deere..... .60

DEERING
D2510, New Ideal, Inner..... .90
D2937, New Ideal, Outer..... .65

EMERSON
M95S, Inner 1.00
M173S, Outer (0-10959)..... .75

JOHNSTON
63FC, Outer with Bracket..... 1.00
1812, Inner, Nos. 9, 12, 14..... .90
2323, Inner, No. 12..... .90
63FD, Outer, No. 14..... 1.00

McCORMICK
M465, Inner, New 4-1896-11..... 1.00
MB465, Inner, New 4-1912..... 1.00
MA259, Outer, New 4..... .70

McCORMICK-DEERING
MB465, Inner 1.00
MA259, Outer ..... .70

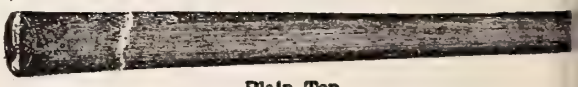
MASSEY-HARRIS
M2216, Outer ..... .55
M2217, Outer 1.00
M2276, Inner ..... .90

MILWAUKEE
PJ108, Inner ..... .90
PJ218, Outer ..... .85

OSBORNE
7010, Inner ..... .75
10959, Outer ..... .60

THOMAS
1041, Outer ..... .60
1096, Inner ..... .75
1107, Inner (New Mower)..... .75

GRAIN DRILL TUBES



Plain Top.

IN ORDERING TUBES it is always best to send an old tube as a sample. If that cannot be done, be sure to state name of **Drill,** the kind of **Tube,** whether **ring flange** or **plain top,** or **special bell-shaped top** with straps, and by all means the length and diameter at top and bottom.

Plain tubes, each.....40c

PLOW BOLTS

Length	List 3/8	Retail Each	List 7/16	Retail Each	List 1/2	Retail Each
1¼	$3.35	4c	$4.50	4c	$6.20	5c
1½	3.50	4c	4.75	4c	6.45	5c
1¾	3.65	4c	5.00	4c	6.70	5c
2	3.80	4c	5.25	4c	6.95	5c
2¼	3.95	4c	5.50	4c	7.25	5c
2½	4.10	4c	5.75	4c	7.55	5c
2¾	4.35	4c	6.05	4c	7.85	5c
3	4.60	4c	6.40	4c	8.20	5c

GRAIN DRILL POINTS

We are one of the largest distributors of GRAIN DRILL POINTS AND TUBES in the Country.

For All the Leading Grain Drills.

IN ORDERING POINTS, either send an old one or give name of Drill, length of point, and be sure to give distance from center of hole to end of point. It is always best, if possible, to send an old sample.

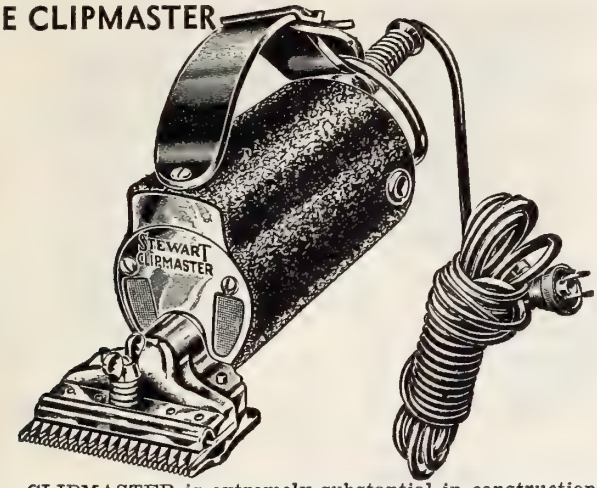
Price, Points, each.....18c.

SPRING COTTERS

Assorted, box of 100.....75c.

ALL PRICES IN CATALOG SUBJECT TO CHANGE WITHOUT NOTICE.

THE CLIPMASTER



The CLIPMASTER is extremely substantial in construction despite its very light weight. All moving parts are scientifically hardened and tempered. Has enclosed bronze bearings packed in special lubricant, requiring no attention for at least a year. Switch is conveniently located at the back of the clipper. The tension is ball bearing and because of its extreme accuracy, will clip with much lighter tension than any other machine ever developed.

Clipmaster for Horses and Cows **$15.00**
Shearmaster for Sheep **25.00**

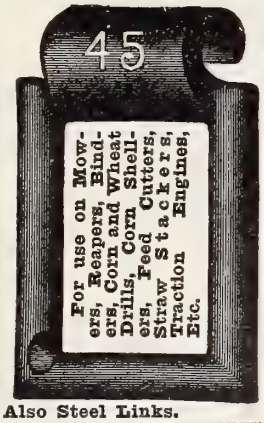
THE STEWART NO. 9 BALL-BEARING SHEEP SHEARING MACHINE

Gears are all cut from solid tool steel, are hardened and are enclosed in dust-proof metal box. Has large balance wheel to assist in easy running. Every joint in the shaft and shearing head is fitted with ball-bearings. **Fitted with No. 7 ball-bearing shear, two combs and four cutters. Weight, 50 pounds.**

Price **$22.95**

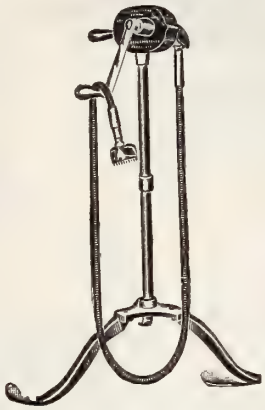
LINK CHAIN BELTING

No.	Links per ft.	Av. Ult. strength lbs.	Price per ft. plain links	Price all per link
25	13.3	700	17c.	3c.
32	10.4	1100	17c.	3c.
33	8.6	1190	16c.	3c.
34	8.6	1300	18c.	3c.
35	7.4	1200	20c.	3c.
42	8.75	1500	19c.	4c.
45	7.4	1600	18c.	3c.
48	6.	1660	23c.	4c.
50	8.7	1900	22c.	5c.
51	10.4	1900	24c.	6c.
52	8.	2300	23c.	5c.
52½	7.9	2866	32c.	6c.
55	7.4	2200	20c.	5c.
62	7.25	3100	27c.	6c.
65	5.66	2460	30c.	8c.
72	5.9	4240	45c.	8c.
72½	7.25	4590	55c.	9c.
76½	5.8	3890	42c.	9c.
77	5.2	3600	35c.	9c.



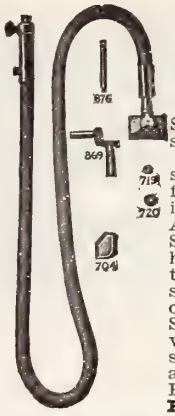
Attachment Links Also Furnished. Also Steel Links.

The Stewart No. 1 Ball-Bearing Horse Clipping Machine



A very rigid and very durable machine, weighing, complete, 36 lbs. Gears enclosed in dust-proof metal box are cut from special steel and hardened. Has six-foot, easy running, flexible shaft and famous Stewart clipping head.

Price, complete ___ **$12.50**



Horse Clipping Attachment

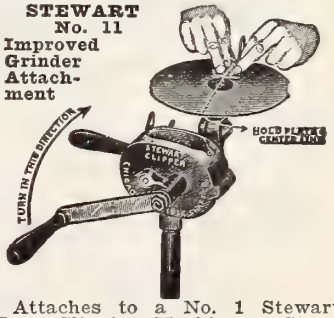
Will fit any Stewart Sheep-shearing Machine. Consists of eye spindle and six feet of high quality flexible shaft. Also the famous Stewart clipping head. Can be attached in a few seconds. Owners of a Stewart Shearing Machine who have horses should have this attachment. Packed in box **Price $8.25.**

Sheep-Shearing Attachment

For Use on Our No. 1 and No. 10 Clipper

This attachment consists of complete No. 5 Stewart Shear head, two combs and four cutters, the solid core, universal jointed shaft and cogs, as shown here. Weight, boxed, 15 pounds. Price of complete attachment, as described, **$16.00.**

STEWART No. 11 Improved Grinder Attachment



Attaches to a No. 1 Stewart Horse-Clipping Machine or Stewart No. 8 or No. 9 Sheep-Shearing Machine. Puts a perfect edge on horse-clipping or sheep-shearing knives. Every user of a horse-clipping or sheep-shearing machine should have one. **Price, $6.75.**

CARRIAGE BOLTS

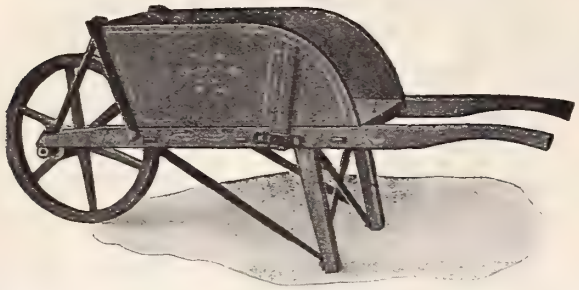
Length, Inches.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.
	¼		5/16		⅜		7/16		½	
1½	$1.20	$.03	$1.80	$.03	$2.35	$.03	$3.75	$.04	$4.60	$.05
2	1.35	.03	2.00	.03	2.60	.03	4.05	.04	4.95	.06
2½	1.55	.03	2.25	.03	2.90	.03	4.40	.04	5.35	.06
3	1.70	.03	2.50	.03	3.20	.04	4.75	.05	5.75	.07
3½	1.85	.03	2.75	.03	3.50	.04	5.10	.05	6.15	.07
4	2.30	.03	2.95	.03	3.80	.04	5.40	.05	6.55	.07
4½	2.45	.03	3.40	.04	4.10	.04	5.75	.05	6.95	.07
5	2.60	.04	3.60	.04	4.50	.05	6.10	.06	7.35	.07
5½	2.75	.04	3.85	.04	4.80	.05	6.45	.06	7.80	.08
6	2.90	.04	4.05	.04	5.10	.05	6.80	.07	8.20	.08
6½	3.65	.04	4.90	.04	6.30	.05	8.25	.07	9.75	.08
7	3.85	.04	5.15	.04	6.65	.06	8.70	.08	10.20	.09
7½	4.00	.04	5.35	.05	6.95	.06	9.15	.08	10.65	.09
8	4.20	.04	5.60	.05	7.30	.06	9.60	.09	11.10	.10
8½	4.35	.05	5.80	.05	7.60	.07	10.05	.09	12.05	.11
9	4.55	.05	6.05	.06	7.95	.07	10.50	.09	12.50	.11
9½	4.70	.05	6.25	.06	8.25	.08	10.95	.10	12.95	.12
10	4.90	.05	6.50	.06	8.60	.08	11.40	.10	13.40	.12
11	5.25	.05	6.95	.06	9.30	.09	12.25	.11	14.30	.13

All ¼-inch Bolts 100 to a Package. Other Sizes 50 to a Pkg.

MACHINE BOLTS

Length, Inches.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.	List, 100.	Retail, Each.
	¼		5/16		⅜		7/16		½	
1½	$1.30	$.03	$1.95	$.03	$2.60	$.03	$4.25	$.04	$5.00	$.05
2	1.50	.03	2.20	.03	2.90	.03	4.55	.04	5.35	.05
2½	1.70	.03	2.45	.03	3.20	.03	4.85	.04	5.75	.06
3	1.85	.03	2.70	.03	3.50	.04	5.20	.05	6.15	.06
3½	2.05	.03	2.95	.03	3.80	.04	5.50	.05	6.50	.06
4	2.50	.03	3.15	.03	4.10	.04	5.85	.06	6.85	.07
4½	2.65	.04	3.60	.04	4.40	.04	6.15	.06	7.25	.07
5	2.80	.04	3.80	.04	4.80	.05	6.50	.06	7.65	.07
5½	2.95	.04	4.00	.04	5.10	.05	6.85	.07	8.05	.08
6	3.10	.04	4.20	.04	5.40	.05	7.15	.07	8.45	.08
6½	3.80	.04	5.10	.04	6.50	.05	9.20	.08	10.15	.08
7	4.00	.04	5.35	.04	6.85	.06	9.65	.08	10.60	.09
7½	4.15	.04	5.55	.04	7.15	.06	10.10	.09	11.05	.09
8	4.35	.05	5.80	.05	7.50	.06	10.55	.09	11.50	.09
9	4.70	.05	6.25	.05	8.15	.06	11.45	.10	12.40	.10
10	5.05	.05	6.70	.05	8.80	.06	12.35	.10	13.30	.10
11	5.40	.05	7.15	.05	9.50	.07	13.20	.10	14.70	.12
12	5.75	.05	7.60	.05	10.20	.08	14.05	.10	15.60	.15

BALTIMORE GARDEN BARROWS



Made of seasoned wood, double frames, firmly bolted, iron braced.

No.	Hub	Length	Front Width	Back Width	Wheel	Tread	Price
1—Garden	19½	30	24	25	21	1½	**$9.50**
4—Garden	14⅞	26	19	22	20	1¾	**7.50**
5—Garden	14⅞	28	20	24	20	1¾	**8.00**
67—Greenhouse		31	15	18	20	2	**10.50**

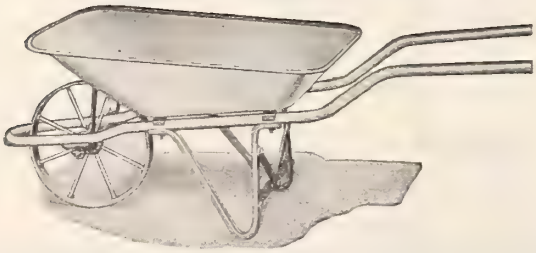
6B—Garden **$5.40**
Nos. 4 and 5, with steel wheel add ..... **.80**
3-inch tire wheel on Nos. 4 and 5 add ..... **.60**

SOLID PRESSED STEEL TRAY BARROW

No. K5X

Durable Steel Wheel, Channel Steel Legs, Improved Steel Nose Guard, Tray Riser and Dash Straps. Capacity 4 cubic feet. Weight 68 pounds **$7.50**
1B Barrow, 3 cubic feet, 4-in. tire wheel **12.00**

TUBULAR FRAME SOLID PRESSED STEEL TRAY BARROW



TT 4, Tray 15-gauge Steel. Capacity 3 cubic feet. Weight, 70 pounds. Wheel, 16-inch diameter; tire 1½x⅜-inch, bored for ⅝-inch. Cold Rolled Steel Axle. For moving earth, ashes and light work **$7.50**

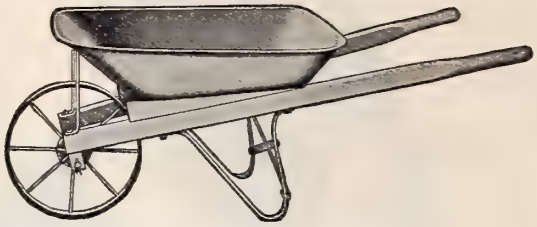
T5X, Tray 16-gauge Steel. Capacity 4 cubic feet. Weight 75 pounds. Mounted on same frame as TT 4. For general purposes and light running. Will stand hard usage **$8.50**

WAGON OR TRUCK SKIDS

These skids are made from strong, select hickory side bars one end being ironed with wedge shaped steel points, between which the side bars extend, which prevents them from splitting. The upper end is ironed in a similar way, only it is equipped with hooks to fasten to the body of the vehicle.

Size	Price	Size	Price
6 Ft.	**$8.00**	10 Ft.	**$11.00**
8 Ft.	**10.00**	12 Ft.	**15.50**

HANDA HOME AND FARM WHEELBARROW



HANDA—16-gauge pressed steel tray, capacity 3 cubic feet. Flat Steel Legs, substantial steel wheel. Weight 45 pounds.
Price **$4.00**

SOLID PRESSED STEEL TRAY COAL AND COKE BARROW NO. 18

Tray of best quality steel, with wired edge. Size No. 13—Gauge of steel in tray, 13; length of top of tray, 41½ in.; width of top of tray, 33 in.; depth at wheel, 11½ in.; depth at handle, 8 in.; capacity, 6 cubic feet; weight 100 lbs.
Price **$11.50**

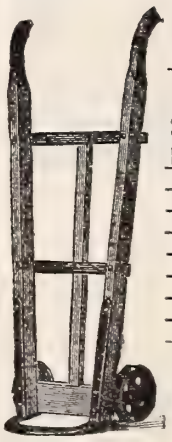
WHARF OR OYSTER BARROW

Steel Wheel. Price ..... **$7.50.**

CONCRETE AND MORTAR BARROWS

No. 77—Deep, narrow Tray, rounded front and corners. 4 cubic feet. Weight, 80 lbs. Made especially to carry a full load of soft concrete or mortar without slopping. **$10.00.**

STORE TRUCKS



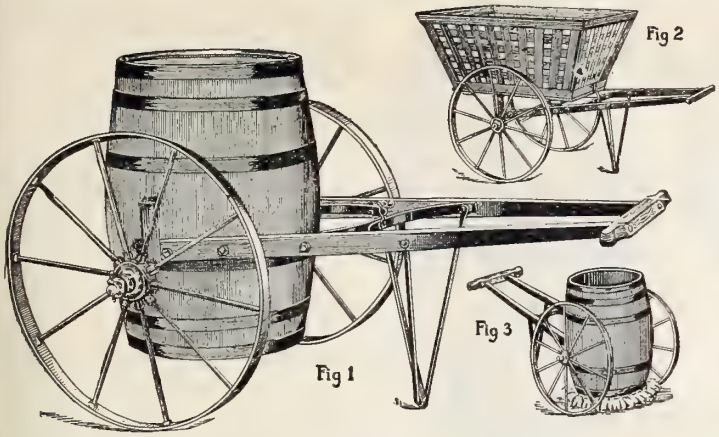
Baltimore Store Truck
Price **$4.60**

Half Strapped	Full Strapped	Price
1		**$8.00**
2		**9.25**
3		**11.00**
4		**15.00**
	A1	**9.00**
	A2	**11.00**
	A3	**12.75**
	A4	**16.00**

New York Pattern

New York Pattern—Sizes

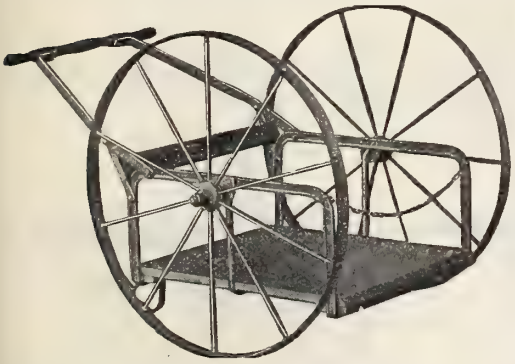
	Length Handles	Width Nose	Width at Upper Bar	Diam. Whs.	Weight
No. 1	48 in.	13 in.	18 in.	6 in.	42 lbs.
No. 2	51 in.	14 in.	19½ in.	8 in.	58 lbs.
No. 3	54 in.	15 in.	21 in.	8½ in.	72 lbs.
No. 4	60 in.	16 in.	22½ in.	10 in.	91 lbs.



WATER TRUCKS AND PUSH CARTS

Water Truck, with Regular 1½-inch Tire Steel or 2½-inch Wood Wheels	$15.50
Water Truck and Barrel	20.00
Water Truck and Box	19.00
Water Truck, Barrel and Box	24.00
Sprinkling Attachment	5.00
Leaf Rack	9.50
Barrel	5.00
Box	3.50
Trunnions, per pair	.75
Trucks with 2½-in. Tire Steel Wheels, add	.50
Trucks with 3½-in. Tire Steel Wheels, add	1.00

BUTLER CART



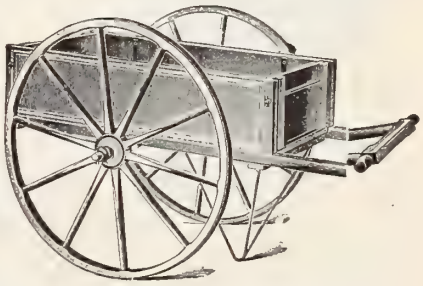
Size of platform 27x30 inches.

Price, $12.00

WHEELBARROW LEAFRACK ATTACHMENT

Can be attached to any style or size wheelbarrow with removable sides. Most convenient for gathering leaves, cut grass and rubbish. One of these attachments should be in use on every small suburban place, as well as the larger estates. Capacity 10 bushels; made of galvanized wire, bolted to a wooden base, price **$5.00**

BALTIMORE PUSH CART



Tire, 1½ inches; wheel, 36 inches; axle, 1⅛ inches; hub, 6 inches.

Box 40x22x10, Price	$19.00
Box 50x28x10, Price	24.00
Extra wheels, each	4.00
Extra axles	1.50

MONITOR CART NO. 53

HEAVY PATTERN

No. 53—Box 40x26x9½ inches, 30-inch wheels, $\frac{3}{16}$-inch spokes, weight 110 pounds, price **$24.00**

No. 23 MONITOR—Box 39x20½x9½ inches, capacity 600 pounds, 30-inch wheels, $\frac{3}{16}$-inch spokes, weight 80 pounds, price **$21.50**

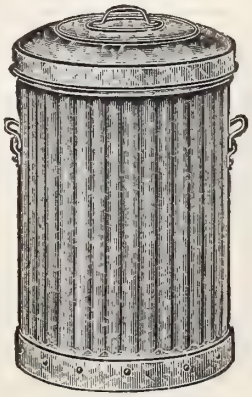
MERIMAC CART NO. 132

TWO WHEELS

Two 26-inch wheels, box 39x20½x8 inches, capacity 250 pounds, weight 55 pounds, price **$14.25**

ASH CAN

With Cover
Hot Dipped—Water Tight

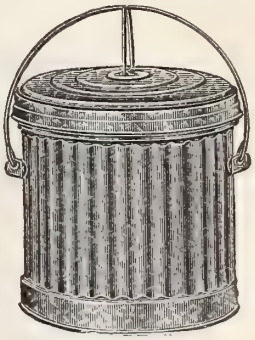


HEAVY ASH CANS

No. 171—16 gallons	$3.75
No. 181—20 gallons	4.25
No. 191—24 gallons	4.75
No. 201—29 gallons	5.40

GARBAGE CANS

Hot Dipped—Galvanized



GARBAGE CANS

No. 311—4¼ gallons	$0.75
No. 321—6 gallons	.90
No. 331—8½ gallons	1.05
No. 341—10 gallons	1.15

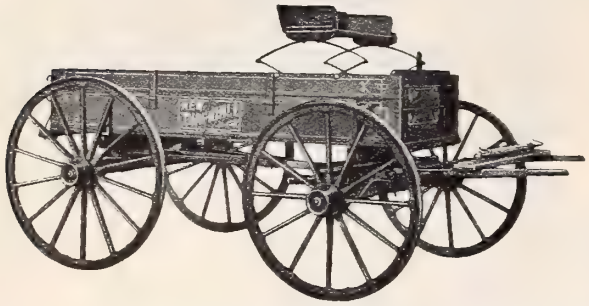
LIGHTER ASH CANS

No. 76—13 gallons	$1.40
No. 77—21 gallons	1.75

DUST PROOF COAL ASH SIFTER

This Ash Sifter saves coal and is dust-proof. It is made from extra heavy galvanized sheets heavily wired and braced and equipped with a cover at top which prevents the dust from escaping. The revolving cylinder is made from extra heavy galvanized wire mesh, operated by handle or crank equipped with wooden grip. The lip at the end of sifter allows the coal to drop directly into the hod. A strong hook holds the hod securely in place. **Price** **$2.50**

GRIFFITH & TURNER WAGONS



ONE-HORSE WAGON

Solid Steel Axle and Thimble Skein

If one horse wagon is wanted with Pole instead of Shafts, add	$5.75
Poles for one-horse wagons	12.00
Bodies without seats, 7 ft. 6 in. long, 15 in. deep, no seat	16.00
Wagon seats	5.00
For 1¾x¼ in. Tires on 1⅞ in. Axle Wagon, add	3.00
For 2x⅜ in. Tires on 1⅜ Axle Wagon, add	4.75
For 2x⅜ in. Tires on 2⅜ in. Wood Axle Wagon, add	4.75
Shafts as an extra	7.50

THIMBLE SKEIN ONE HORSE WAGON

Size Cast Skein	Reg. Tires	Height Wheels Front Ft. In.	Height Wheels Rear Ft. In.	Dimension of Body Leng. Ft. In.	Dimension of Body Wid. Ft. In.	Dimension of Body Dep. In.	Capacity	Weight	Gear only no brake	Gear with brake	Wagon comp. with body	Wagon comp. with body and brake
2⅜x7½	1¼x⅜	3′ 4″	3′ 8″	7′ 6″	3′ 4″	15″	1200 lbs.	550 lbs.	$48.00	$53.00	$66.00	$72.00

STEEL AXLE ONE HORSE FARM WAGON

1⅛x6½	1⅛x5/16	3′ 4″	3′ 8″	7′ 6″	3′ 4″	15″	1000 lbs.	550 lbs.	$50.00	$55.00	$68.00	$74.00
1⅜x7½	1⅜x½	3′ 4″	3′ 8″	7′ 6″	3′ 4″	15″	1500 lbs.	735 lbs.	65.50	70.50	83.50	89.50

THORNHILL FARM TRUCK

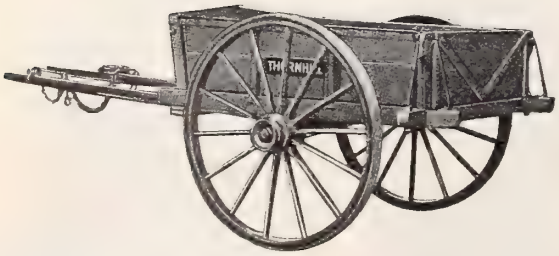
A good truck, very strong, suitable for either farm or road work, 2-inch solid steel square axles, wood wheels 36-inch rear and 32-inch front, 2x8½ box and with 3x⅜ inch tires. It is made in both drop and slip tongue. Top or swing side and tail brakes furnished when ordered.

Equipped regularly with Club Bolster stakes, but can be furnished with stationary stakes. Prices include single and double trees, and chains for stiff tongue, and neck yoke for drop tongue wagon.

Be sure to state just what you want when ordering.

PRICES

Farm Truck, with Drop Tongues, 32″ and 36″ wheels	$85.00
Farm Truck, with Slip Tongue	85.00
For any of the following extras, add to the above wagon prices—	
10-foot Body, with 24-inch sides, no seat	27.00
Body Brake Attachments	2.75
36-inch Front and 40-inch Rear Wheels	optional
40-inch Front and 44-inch Rear Wheels	optional
3x½ inch Tires	5.00
4x⅜ inch Tires	7.50
Seat and Springs	5.00
Jersey Double and Singletrees	2.00
Side Brake	8.00
Tail Brakes	11.00
Both Brakes when Ordered at Same Time	16.00
Stationary Bolster Stakes	optional



FARM CARTS

	Price
2-inch axle, 3x½-in. tire, 4-ft. 4-in. wheels, 700 lbs.	$81.00
2-inch axle, 4x⅜-in. tire, 4-ft. 4-in. wheels, 750 lbs.	85.00

CONTRACTOR'S CARTS

2-inch axle, 3x⅝-in. tire, 4-ft. 6-in. wheels	$105.00
2-inch axle, 4x½-in. tire, 4-ft. 6-in. wheels	108.00

ACME JUNIOR FARM WAGON—Best Ever Made

Wheels are 14 inches and 18 inches high, with heavy tires; bed is 16x36 inches, strongly made. These wagons are made of the very best materials and they are first class. $12.50

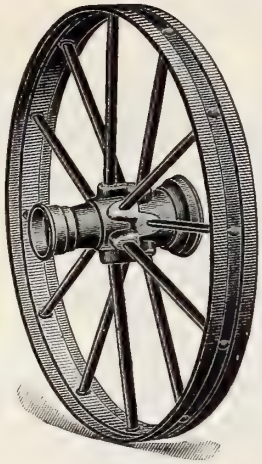
HANDY STEEL WHEEL FARM TRUCK—With Full Front Hounds

Wood Hounds—Hickory Axles—Grooved Tines

No. 24—3¼x10 skeins, weight 500 pounds, capacity 4000 pounds. Price	$55.00
Brake	7.75
Doubletrees and yoke	6.00
Shafts, extra	9.00
Shafts instead of pole, add	5.00

METAL TRUCK WHEELS

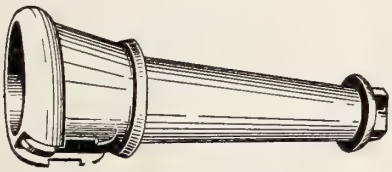
We carry wheels in stock, sizes 3x9 and 3¼x10. All other sizes will have to be ordered from the factory according to measurements sent at special prices. **If measured wrong, we will not take the wheels back.** Wood wheels, prices on application. Prices on other sizes quoted on application.



PRICES PER WHEEL WITH 4x⅜ TIRES

24-inch	$6.60
26-inch	6.90
28-inch	7.30
30-inch	7.70
32-inch	8.40
34-inch	8.80
36-inch	9.50

CAST SKEINS AND BOXES



	Price	Boxes Only
Size 2½x8 inches, with boxes, per set	$10.00	$3.40
Size 2¾x8 inches, with boxes, per set	11.00	3.70
Size 3x9 inches, with boxes, per set	12.00	4.00
Size 3¼x10 inches, with boxes, per set	15.00	5.00
Size 3½x11 inches, with boxes, per set	20.00	7.00

STEEL SKEINS ORDERED AS DESIRED

WOOD SINGLE, DOUBLE AND TRIPLETREES

Our line of Single, Double and Tripletrees are the best on the market, CLIP ENDS. Made of second growth hickory, carefully selected and thoroughly seasoned.

26-in. Singletree	$ .55	34-in. Singletree	$ .75
28-in. Singletree	.60	36-in. Singletree	.80
30-in. Singletree	.65	36-in. Doubletree	1.00
32-in. Singletree	.70	40-in. Doubletree	1.25

Extra Heavy Tripletree $2.25

WOOD NECK YOKES

40-inch $1.50

WOOD SINGLETREE SETS

One 36-inch Doubletree and two 28-inch Singletrees, with open rings	$2.25
One 36-inch Doubletree and two 30-inch Singletrees, with open rings	2.50
One 40-inch Doubletree and two 34-inch Singletrees, with open rings	3.00

FULL LENGTH STRAP, WAGON TREE SETS

48-inch Doubletree, 34-inch Singletrees and 40-inch Neck Yoke	$4.50
Wagon Doubletrees, 48-inch, each	1.40
Wagon Singletrees, 34-inch, each	1.00
Wagon Neck Yokes, 40-inch, each	1.60
Double and Singletrees, less Neck Yoke for Rollers, Corn Planter, etc.	1.75
Double and Singletrees, with Neck Yoke for Rollers, Corn Planters, etc.	3.25

STEEL SINGLE AND DOUBLETREES

U SINGLE, DOUBLE AND TRIPLETREES

Prices: Singletrees, with **Malleable Hooks,** 24-inch, **60c;** 26-inch, **65c;** 28-inch, **75c;** 30-inch **90c;** Doubletrees, with **Hooks,** 36-inch, **$1.00;** Steel **Tripletrees Set, complete, per set of 6 pieces, $5.00.**

GALVANIZED STEEL BASKETS

UTILITY STEEL BASKETS GALVANIZED

With Drop Handles, 1 bushel	$0.70
1½ bushels	1.10
½ bushel	.70

SPLIT BAMBOO and OAK BASKETS

1 bushel (iron bound)	$1.35
1½ bushel (iron bound)	1.85
2 bushels (iron bound)	2.60
3 bushels (iron bound)	3.50

MEASURES

	Each
¼-peck, flat hoops	$0.65
Peck and ½-peck, flat hoops	1.00
½-bushel, flat hoops	1.25

DAISY INDESTRUCTIBLE FARM BASKETS

No. 2-PB—½ bushel rounded full. Made of No. 12 Galvanized Wire, spaced approximately ⅝-inch apart. Hoop welded to each vertical wire. Patent ears that can never come off. Regular bails No. 6 galvanized wire.

Price $1.25

CHERRY SEEDERS

These cherry seeders are so constructed that they can be adjusted for different size cherries. They work very rapidly and do not tear up the fruit.

The No. 2 Seeder is made with Clamp.

The No. 1 Seeder has four legs which screw to the table.

PRICE, No. 1 $1.00

PRICE, No. 2 1.00

OPEN SIDE LAP LINKS

Open Side Lap Links, polished, ½x2½ 15c
⅝x3 20c ¾x3 25c

SET OF WELDED CLIPS

CLIPS FOR DOUBLETREES

No. 77—Southern; one ⅝-inch Center Clip and Hook, with hook and two ½-inch Clips. **Set, 45c.**

No. 76—Pennsylvania; one ¾-inch Center Clip and Hook, with ¾-inch hook and two 9/16-inch End Clips. **Set, 65c.**

CLIPS FOR SINGLETREES

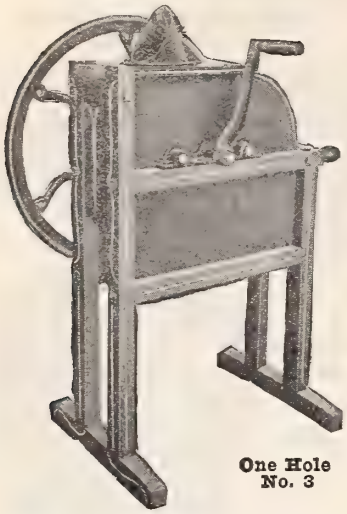
No. 75—One Center ½-inch Clip, and two ⅜-inch End Clips; used on 28-inch Singletrees. **Set, 30c.**

No. 74—One Center 9/16-inch Clip, and two 7/16-inch End Clips. **Set, 35c.**

No. 73—One Center ⅝-inch Clip, and two 7/16-inch End Clips; used on 34 and 36-inch heavy Singletrees. **Set, 40c.**

No. 72—One center ¾-inch Clip, two ½-inch End Clips. **Set, 60c.**

BUCH'S SHELLER



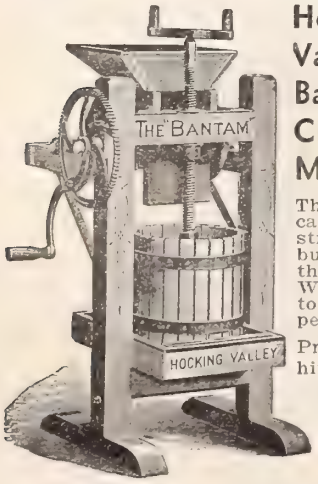
One Hole No. 3

Separates corn and cob. Corn discharged beneath Sheller, cobs at end. Easily adjusted for large or small ears. Capacity 125 bushels a day. Weighs 130 pounds. Price **$15.25**

HOCKING VALLEY DOUBLE CAGE MILL

Best and strongest built. Adjustable for all sizes of apples. All have hinged tubs and iron roller.

Junior—2 to 4 barrels per day.... **$30.00**
Medium—4 to 6 barrels per day... **34.00**
Senior—6 to 8 barrels per day.... **50.00**
Pulley extra **2.50**

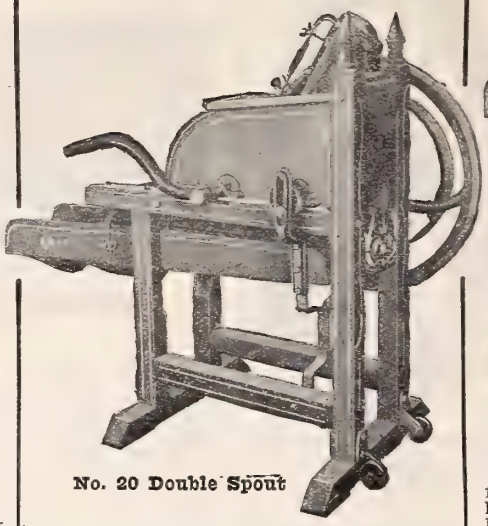


Hocking Valley Bantam Cider Mill

This single cage mill is strongly built throughout. Will grind 1 to 2 barrels per day.

Price, with hinged tub, **$22.00**

THE BALTIMORE SHELLERS



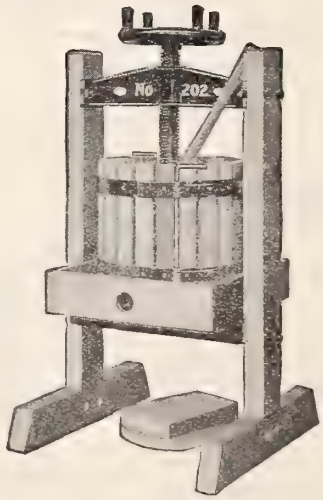
No. 20 Double Spout

This sheller is built very strong from the best materials, and has a combination flywheel and pulley.

Hand and power, with shaker belt and flywheel. Capacity 200 bushels per day. Capacity by power, 500 to 600 bushels. Weight 300 pounds.

No. 20, with shaker, price **$34.25**

FAMOUS LINE OF OASIS PRESSES



Guaranteed to be entirely satisfactory in execution, ease of operation, durability and finish. Made in 4 sizes.

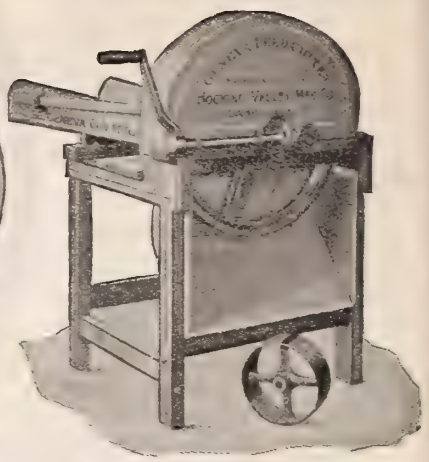
	Size of Tub	Capacity	Price
No. 101	11½x11¼	½ bu.	$10.00
No. 202	14¼x12¼	¾ bu.	13.00
No. 303	17¾x15½	1½ bu.	23.00
No. 404	23¼x20	3½ bu.	33.50

All Furnished with Hinged Tub.

WAGNERS FRUIT & LARD PRESS

	Our Price
4-Quart	$6.50
6-Quart	8.00
8-Quart	8.50
Stuffing Attachment	1.50

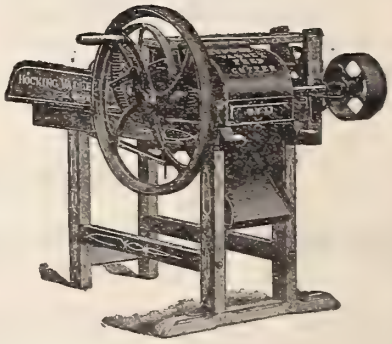
GENEVA FEED CUTTER



Easy running. Nicely balanced. Built for service. All equipped with two knives on balance wheel. All sizes are hand machines, but can be equipped with pulley for power. Special attachment for making ⅛-inch cut.

No. 6—9-inch Knife, Hand Power, Price ¼ to 1¼-inch cut..... **$48.00**
No. 8—10-inch Knife, Hand Power, ¼ to 1¼-inch cut..... **52.00**
No. 10—10-inch Knife, Hand or Power, ¼ to 1¼-inch cut..... **61.00**
Pulley 10x4, for Nos. 8 and 10... **2.40**

HOCKING VALLEY FEED CUTTER



Best for sixty years. Upward cut is great advantage. Less power as drive is direct on knife shaft. No complicated gearing. Safety balance wheel. Thoroughly guaranteed. Pulley 10x6.

No.	Knives	Cut	Power	Price
9	3- 9 in.	⅜-⅞ in.	Hand	$50.00
11	4-11 in.	¼-½-1 in.	1 Horse	80.00
13	4-13 in.	¼-½-1 in.	2 Horse	90.00

Carriers Furnished at Extra Cost

MARYLAND LEVER CUTTER

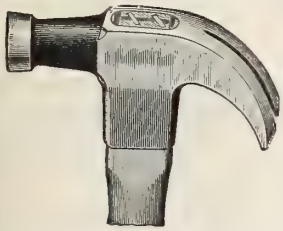
Strong, cheap, and durable.

Price **$7.25**

Our Axes are of best quality. We only sell those we know to be first class, and have an established reputation.

Kelly, Single Bit—4½ and 5½ lbs., each **$1.50**

CLAW HAMMERS



No. 5191½—Hand Made, each, **55c**
No. 5171½—Falls City, each, **65c**

KELLY AXES

Kelly Axes, complete with 34-inch handle, 3½, 4, 4½ and 5 lbs.,
Price **$2.00**

Kelly Half - Hatchets, price **90c**

AXE HANDLES

Oriole—Extra Selected Second Growth All White Hickory Axe Handles ..... **.40**

THE NEW CLIPPER
Grain, Seed, and Bean Cleaner

These cleaners are guaranteed to be first-class in every respect

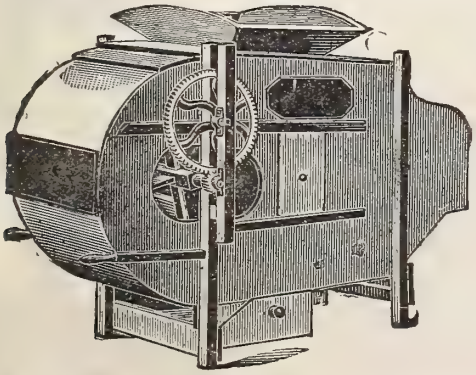
We furnish the best outfit of screens ever sent out with a farm Mill. Our perforated zinc screens are graduated in 64ths of an inch in both round and oblong holes. Our woven wire screens are made of plated wire with the meshes uniform and true to count. The zinc screens will not rust and our plated wire screens will last for years if properly cared for.

VERTICAL AIR BLAST. This is a feature that no other cleaner has and it makes possible some very difficult separations that can be made in no other way.

The No. 2-B differs from the No. 1-B only in size and capacity. Both machines are equipped with a set of 12 screens for general farm use. The No. 2-B is larger.

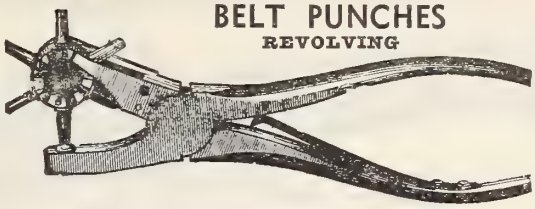
No. 1-B **$51.00**
No. 2-B **59.00**
Power Attachment, extra **1.00**

BALTIMORE IMPROVED GRAIN FAN



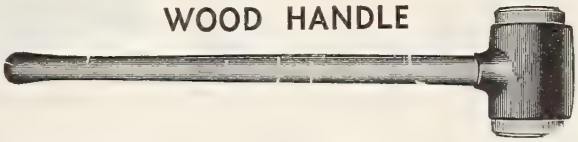
Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner.
Price **$45.00**

BELT PUNCHES
REVOLVING



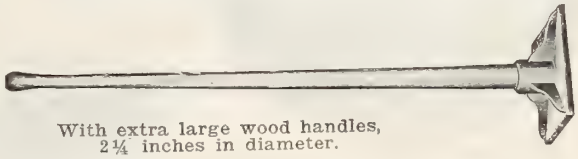
Price, each, Four tube, **95c**; Six tube, **$1.15**

CAST MAULS WITH WOOD END AND WOOD HANDLE



10 Pounds, Each **$1.75**
12 Pounds, Each **1.95**
16 Pounds, Each **2.50**

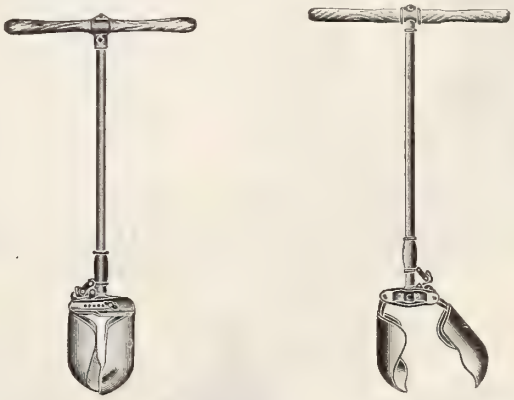
TAMPERS FOR POST, SOD AND CEMENT



With extra large wood handles, 2¼ inches in diameter.

No. 2 Round Tamper, 5 in. Diameter, 15 lbs., Price **$1.40**
No. 5 Square Tamper, 6 in. x 6 in., 12 lbs., Price **1.40**
No. 6 Square Tamper, 8 in. x 8 in., 17 lbs., Price **1.60**
No. 7 Square Tamper, 10 in. x 10 in., 20 lbs., Price **1.75**

THE STANDARD EARTH AUGER



No. 5, bores holes 5, 6, 7 and 8 inches in diameter, 3½ feet deep. Each, **$5.00.**

No. 8, bores seven holes, 8, 9, 10, 11, 12, 13 and 14 inches in diameter, 3½ feet deep. Each, **$6.00.**

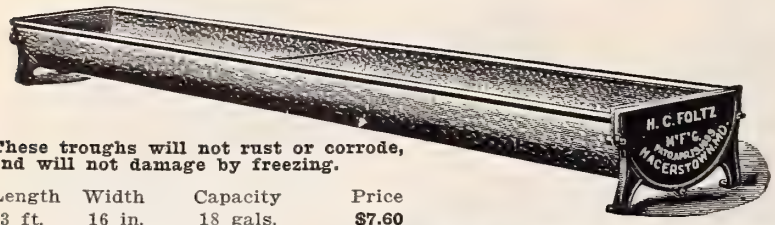
No. 16, Telescope, 8 to 14 in. hole, 10 feet deep, **$14.00**

GIBBS' POST-HOLE DIGGER

Digs faster, works easier than any other on the market. All wearing parts have steel pins. Makes a hole of any desired diameter. First-class for tree planting.

Price **$2.50**

GALVANIZED STEEL STOCK TROUGHS



These troughs will not rust or corrode, and will not damage by freezing.

Length	Width	Capacity	Price
3 ft.	16 in.	18 gals.	**$7.60**
4 ft.	16 in.	24 gals.	**8.60**
6 ft.	16 in.	36 gals.	**10.25**
8 ft.	16 in.	48 gals.	**12.00**
10 ft.	16 in.	60 gals.	**14.40**
12 ft.	16 in.	72 gals.	**17.00**
4 ft.	20 in.	40 gals.	**10.75**
6 ft.	20 in.	60 gals.	**13.20**
8 ft.	20 in.	80 gals.	**15.20**
10 ft.	20 in.	100 gals.	**18.30**
12 ft.	20 in.	120 gals.	**20.25**

WROUGHT IRON HAY RACK

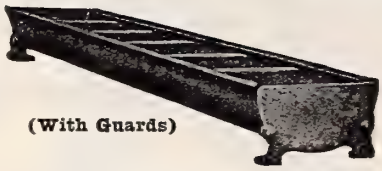
No. 12—Frame, 1 inch channel, 8 uprights, ½ inch round bar, exceptionally strong and heavy.
Price **$4.00**

No. 13—Frame, 1 inch channel, 6 uprights, ½ inch round bars.
Price **$4.00**

CAST IRON CORNER MANGERS

With Roll Front Food Guard.

No. 6—17 in. long, 17 in. wide, 10 in. deep **$4.00**
No. 7—18 in. long, 18 in. wide, 10 in. deep **4.50**
No. 7½—20 in. long, 20 in. wide, 10 in. deep **7.00**



(With Guards)

GALVANIZED HOG AND SHEEP TROUGHS

Length	Width	Capacity	Weight	Price
3 ft.	10 in.	6 gals.	30 lbs.	**$4.50**
4 ft.	10 in.	8 gals.	35 lbs.	**5.35**
5 ft.	10 in.	10 gals.	40 lbs.	**5.75**
6 ft.	10 in.	12 gals.	45 lbs.	**6.40**
8 ft.	10 in.	16 gals.	55 lbs.	**7.60**
10 ft.	10 in.	20 gals.	65 lbs.	**8.80**

HORSE MUZZLES

Well made and of good stout wire.

No. 18—Plain. List Price, dozen, **$1.20. Our Special Price, each, 10c.**

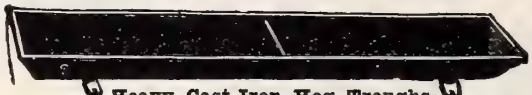
No. 16—Braced. List Price, dozen, **$2.00. Our Special Price, each, 15c.**

No. 14—Braced. List Price, dozen. **$2.50. Our Special Price, each, 20c.**

HEAVY HARNESS HOOKS

No. 1—Upper Hook projects 12 in., lower hook projects 5 in. Approximate weight 4 lbs.
Price .....**$1.00.**

No. 2—Extra Heavy, Upper Hook projects 12 in., lower hook projects 7 in. Approximate weight, 8½ lbs.
Price .....**$1.75.**



Heavy Cast-Iron Hog Troughs.

No danger of bursting in winter. Twelve inches wide at the top, 2 inches at bottom, and 7 inches deep. Made from 2 feet up to 12 feet.
Price .....**95c per foot**

ROTO SALTS

SALT CAKES, Each, 25c.

ROTO SALT HOLDERS, 50c.

THE EAGLE SLAW CUTTER

Slaw Cutter and Vegetable Slicer is the speediest, handiest and most serviceable cutter on the market for cutting Slaw, Kraut, Noodles, Cucumbers, Potatoes, Onions, Parsnips, Pie Plant, Beets, Bananas, Turnips, Vegetable Oysters, String Beans, Pineapples, Saratoga Chips, etc.

The cleanest, quickest and nicest way to prepare fruits and vegetables that require cutting is to use an "Eagle" Slaw Cutter and Vegetable Slicer.

PRICE **$3.25**

TURNTABLE APPLE PARER

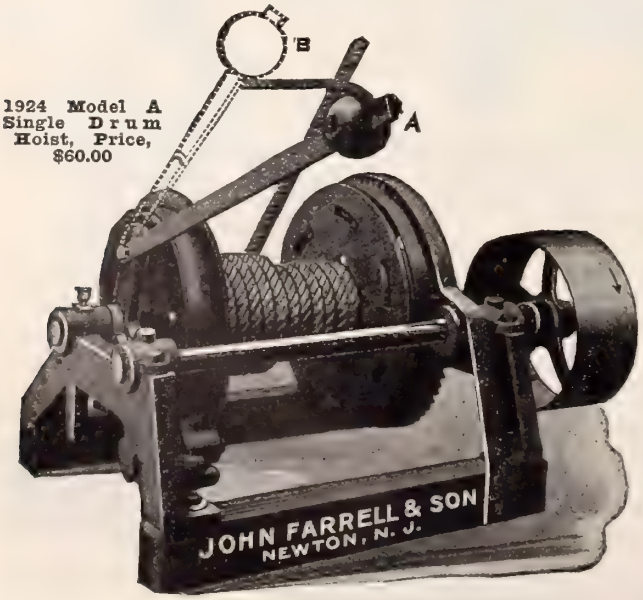
No. 1898

A strong, rapid, durable machine. Pares very close at both ends of the apple. When passing the end of the fork the knife recedes, leaving ample room for placing the apple on the fork. Does not core or slice. Push-off is automatic.

Price, each **$1.25**
White Mountain Parer and Corer..... **1.00**

1924 MODEL B DOUBLE DRUM HOIST

With Lever-Lock Brake, Price $70.00



1924 Model A Single Drum Hoist, Price, $60.00

THE H. & Z. CONCRETE MIXER

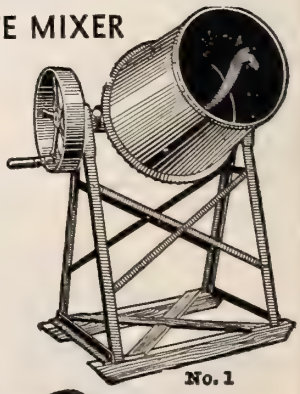
Saves Cement and Insures Better Concrete.

Eliminates Much Hard Work and Does a Better Job

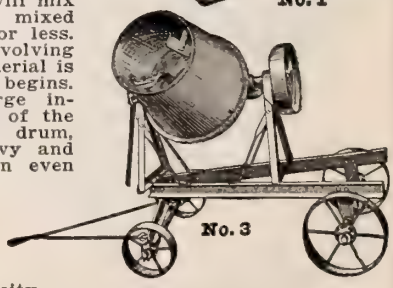
Hand mixing is a hard, back-breaking job, and because it is difficult it is often slighted—the concrete is poorly mixed, cracks, crumbles and goes to pieces. To insure a good job the concrete should be mixed with an H. & Z. Mixer—and that is the most economical way in the end.

A FAST WORKING MACHINE

The H. & Z. Mixer will mix a batch of thoroughly mixed concrete in a minute or less. The drum is always revolving and as soon as any material is put into it the mixing begins. The revolving discharge insures a quick pouring of the entire contents of the drum, throwing out the heavy and lighter materials in an even flow and not draining off the water and sand first as would be the case in a stationary discharge.



No. 1



No. 3

No. 1—2½ cu. ft. capacity.....
No. 3—3½ cu. ft. capacity.....
No. 4—3½ cu. ft. capacity with 1½ H. P. Engine....

BANNER ROOT CUTTERS

No. 7

FOR HAND OR POWER

No. 7, For Poultry, price $9.00

Banner No. 20

Banner No. 20

No. 20 is a new style machine. It can be used by hand. Is very strong and durable. Capacity 30 to 50 bushels per hour. Weight 100 pounds.

Price, with Crank **$23.00**

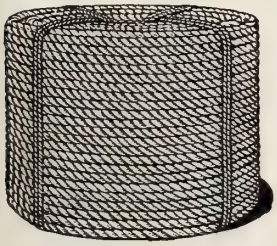
No. 35—Banner Root Cutter

Heavy construction for hand or power; weight, complete, 185 pounds; capacity of hopper about 3 bushels.

This is a cylinder type cutter and is made strong to stand power. The hopper is large and deep. The Cutting Drum to which the knives are attached is strong and will not break or wear out. It is positive feed as the roots lay on top of the Cutting Drum. It has 30 gouge-shaped knives.

Price, complete, with Pulley and Crank, $55.00

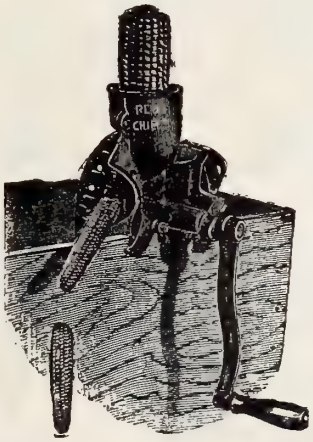
BEST QUALITY ROPE



FODDER YARN

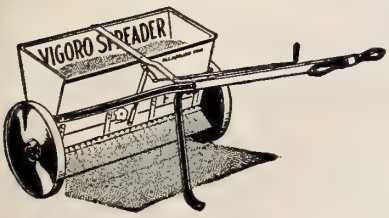
Write for Prices

RED CHIEF CORN SHELLER



Price, each **$2.25**
Weight, 12 pounds.

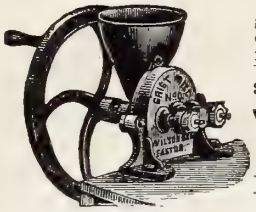
NEW VIGORO SPREADER



Little Vigoro, 14-in.	$1.65
Model B Vigoro, 14-in.	2.85
Junior Vigoro, 16-in.	5.45
Standard Vigoro, 24-in.	9.95
Special Vigoro, 36-in.	15.95

Use a Vigoro Spreader for results.

WILSON NO. 0 FAMILY GRIST MILL



This mill is especially made for grinding Graham Flour or Cornmeal; can be adjusted for cracking grain if desired. Weight, 30 lbs., **$7.50.** With iron stand; weight, 65 lbs., **price $10.50.** Diameter of hand wheel, 20 in.

Wilson No. 1 Bone and Shell Mill

Weight, without stand, 33 lbs..**$7.50**
Weight, with stand, 68 lbs.....**10.50**

RED CHIEF MILLS

No. 1—For Small Poultry Raisers. **Price**.....**$3.50**

No. 2—Best Crank Mill on earth. Feed gauge to regulate grinding. **Price** **$5.00**

No. 5—With large capacity, feed gauge and fly wheel. Clamps to box. **Price**.....**$6.50**

No. 10—With feed gauge, fly wheel and handsome stand to screw on table. **Price**.....**$8.50**

No. 10

Combined Hand and Power Mill

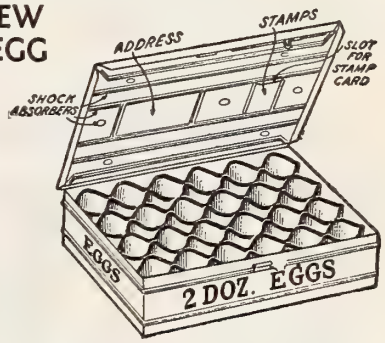
No. 20—Power Mill for two-horse engine; tight and loose pulley, best of bronze boxes and cold rolled steel axle, capacity 10 to 20 bushels per hour. Has no equal. **Price, $19.00.**

MANN'S GREEN BONE CUTTER

No. 5C—With Crank Handle. Weight, 35 lbs.	**$12.00**
No. 5B—With Balance Wheel. Weight, 45 lbs.	**15.00**
No. 7—With Balance Wheel. For flocks of 100 hens	**19.75**
No. 9—With Balance Wheel. For flocks of 300 hens	**30.00**

Larger Sizes, Price on Application

PARCEL POST NEW MODEL METAL EGG CRATE



The biggest thing to be said of the New Model is that it is designed and built—both inside and out—to eliminate waste of fillers and breakage of Eggs as well as deterioration of the carrier, thus insuring long life.

METAL EDGE FILLER

The new patented Filler made of cardboard, circular in shape (like an egg) and reinforced with Metal Edges to insure strength, yet retain lightness in weight, is a wonder for safety and durability.

1 Dozen Egg Size	$1.00
2 Dozen Egg Size	1.50
3 Dozen Egg Size	1.75
4 Dozen Egg Size	2.00
6 Dozen Egg Size	2.25
9 Dozen Egg Size	3.00
12 Dozen Egg Size	3.50

BOXES FOR FRESH EGGS

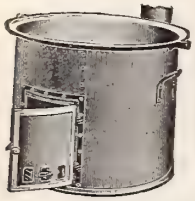
FOR MARKET TRADE

This is not a Parcel Post or Express Box, but is intended for counter and private use. Any one selling eggs will find this box a great convenience, as it obviates any mistakes in the count and also avoids any breakage.

Delaware Egg Boxes, two rows for 12 eggs, per 100 ..... **$1.75**

Eagle Egg Boxes, three rows for 12 eggs, per 100 ..... **1.00**

SPECIAL PRICES IN QUANTITIES



G. & T. BOILER AND FEED COOKER

Unusual Rating	Actual Capacity	Diameter of Furnace	Shipping Weight	Price Furnace with Kettle	Price Furnaces only	Price Scalding Kettles only
No. 3—30 gallons	24¼ gallons	26 inches	160 pounds	**$23.00**	**$11.50**	**$13.00**
No. 4—35 gallons	30 gallons	28½ inches	190 pounds	**26.00**	**12.25**	**15.00**
No. 5—40 gallons	37 gallons	29½ inches	200 pounds	**30.00**	**13.00**	**18.00**
No. 6—50 gallons	45 gallons	31½ inches	258 pounds	**34.00**	**13.75**	**22.00**
No. 7—55 gallons	52 gallons	32 inches	280 pounds	**36.50**	**15.00**	**24.50**

We always ship furnaces without firepot for coal unless otherwise specified. For wood fuel no firepot or grate is required, but for coal it is necessary to use firepot. **Firepot, Price, $7.85. Grate, $1.25, f.o.b. factory.**

IRON KETTLES WITH BAILS

	Capacity	Price
No. 4	15 gals.	**$5.50**
No. 5	20 gals.	**6.50**
No. 6	25 gals.	**8.50**
No. 7	30 gals.	**10.25**

FARMERS FAVORITE

FEED COOKER AND AGRICULTURAL BOILER

Heating water for scalding hogs and poultry, Rendering Lard and Tallow, Boiling Sorghum, Heating Drinking Water for Stock.

No.	Capacity	Size Boiler	Fire Box	Price
2	30 gal.	22x24x13½	24 in.	**$21.00**
3	40 gal.	22x30x14	30 in.	**23.50**
4	50 gal.	22x36x15	36 in.	**26.00**
6	100 gal.	22x60x17	60 in.	**33.00**

Top Plates With Holes for Kettles

No. 2 Cooker **$3.75** No. 4 Cooker **$5.30**
No. 3 Cooker **4.50** No. 6 Cooker **8.15**

Grates and Linings

For burning hard or soft coal or coke **$10.00**

THE BUTTS REVERSIBLE HARROW TOOTH POINTS

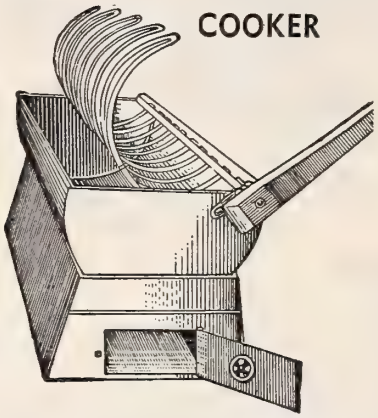
Can be used on all Spring Harrow Teeth.

Price, each **30c**
Osborne **22c**
Deering **22c**
I. H. C. **22c**

SYRACUSE REVERSIBLE HARROW TOOTH POINTS

Price **20c**

STEEL HOG SCALDER AND COOKER



Plain Scalder does very well if placed over a ditch and fire built underneath, but most farmers prefer rack and fire-box complete. Shipping weight, 425 pounds.

Plain Scalder, 6 ft. by 30 in. by 18 in. deep. **Price, $25.00.**

Fire-box with 5-inch pipe hole. **Price, $15.00.**

Dumping Rack with lever. **Price, $15.00.**
Scalder complete. **Price, $55.00.**

CRYSTAL METAL FARM BELLS

Prices, including hangings, complete:
Bronzed

No.	Weight Complete	Diameter of Bell	Price
1.	40 lbs.	15 in.	**$5.00**
2.	50 lbs.	17 in.	**6.00**
3.	75 lbs.	19 in.	**10.00**
4.	100 lbs.	21 in.	**12.50**

No. 4 Bell has a stand instead of yoke.

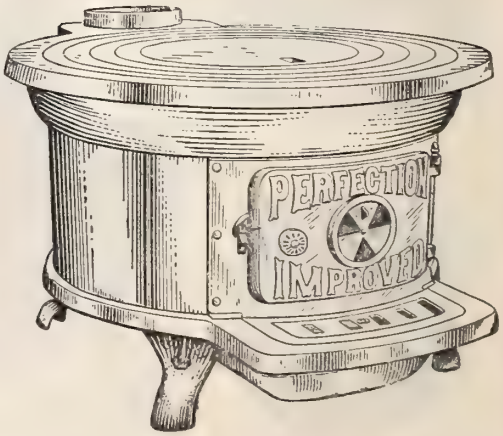
HUSKING PINS

No. 7-Y—With cot more open between the fingers. Grain leather **25c**

No. 100-Y—Cold rolled steel, 4½ inches, nickel-pated pin, with split leather shield and double compartment, adjustable finger strap **15c**

No. 00-X—Clark's "Hickory" Pin, 4½ inches long, made of best cold rolled steel, with one compartment **10c**

IMPROVED KETTLE RANGE



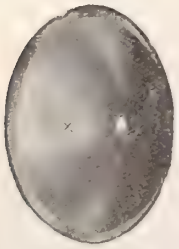
This Kettle Range is made to accommodate any kettle a farmer may happen to have. Any copper or iron kettle up to 40-gallon capacity can be used.

The largest opening, when all the rings are off, is 25 inches, and the smallest is 12 inches.

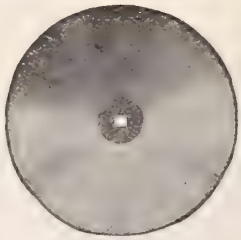
The outside of the firebox is made of heavy steel plates and lined inside with cast iron firebacks on all sides. The size of the firebox is 12 inches wide and 24 inches long and supplied with grate and ash pit, and has ash pan so that ashes can be removed without use of shovel.

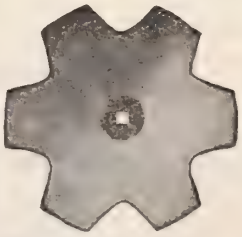
Pipe opening for 6-inch pipe. Weight, 200 lbs. **Our Special Price, $40.00.**

HARROW DISKS



FRONT AND BACK REGULAR HARROW DISC





CUTAWAY HARROW DISC

HARROW DISCS

16 inch **$1.40**
18 inch **1.75**

CLARK CUTAWAY DISCS

16 inch **$2.10**
18 inch **2.60**
24 inch **5.50**

Furnished $\frac{13}{16}$ and $\frac{15}{16}$ square hole.

STRAP HINGES

	Light Pair	Heavy Pair
4-in.	.10	.12
6-in.	.16	.16
8-in.	.20	.27
10-in.	.40	.47
12-in.	.55	.72

SCREW HINGES

6 to 12 inches, per lb. ..... .10
14 to 20 inches, per lb. ..... .09½
22 to 36 inches, per lb. ..... .09

T-HINGES

Light T.	Per Pair
4 inch	$0.10
6 inch	.15
8 inch	.20
10 inch	.32
12 inch	.45

Ex. Heavy T	Per Pair
4 inch	$0.16
6 inch	.20
8 inch	.35
10 inch	.50
12 inch	.78

HINGE HASPS

	Each
3-inch	.08
4-inch	.09
6-inch	.10
8-inch	.15

BELL BOTTOM JACK SCREWS

These Jack Screws have cast-iron stands with forged head screws. For workmanship and durability they cannot be excelled.

Diam Screw	Height Stand	Height over all	Our Special Price
1½ in.	12 in.	15 in.	$4.00
1½ in	14 in.	17 in.	4.50
1½ in.	16 in.	19 in.	5.10
2 in.	10 in.	14 in.	5.10
2 in.	12 in.	16 in.	5.65
2 in.	14 in.	18 in.	6.20
2 in.	16 in.	20 in.	7.00
2 in.	18 in.	22 in.	7.70
2 in.	20 in.	24 in.	

Capacity 1½-in. diameter screw, 10 tons.
Capacity 2-in. diameter screw, 12 tons.
Other sizes. Prices on Application.

IMPROVED SAMPSON JACK

MALLEABLE IRON.

Best Jack on the market. Can be used for any height axle. No breaking of cogs and standards.

No. 1—Will raise 2 tons.....$5.00
No. 2—Will raise 5 tons..... 6.25
No. 3—Will raise 5 tons, with drop hook 7.25
Can also furnish other Jacks. **Prices on application.**

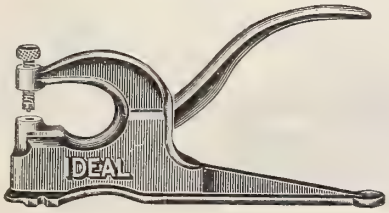
IDEAL RIVETING MACHINE

This is the best lowest-priced **Riveting Machine** made. Warranted to set Tubular Rivets perfectly.

Price 85c

Tubular Rivets

100..... 15c



ICE HOOKS

No. I H 6—6-ft. Handle, Strapped Ferrule.....$1.25
No. I H 7—7-ft. Handle, Strapped Ferrule..... 1.50
No. I H 8—8-ft. Handle, Strapped Ferrule..... 2.00

WROUGHT SCREW AGRICULTURAL WRENCHES

6 in. 50c, 8 in. 60c, 10 in. 70c, 12 in. 85c, 15 in. $1.00.

MACHINISTS' KNIFE HANDLE WRENCHES

6 in. $1.00, 8 in. $1.20, 10 in. $1.40, 12 in. $1.80, 15 in. $2.55.

STILLSON WRENCHES

Size	Grips	Retail	Size	Grips	Retail
6 in.	½ pipe	$0.75	18 in.	2 pipe	1.50
8 in.	¾ pipe	.85	24 in.	2½ pipe	2.25
10 in.	1 pipe	.90	36 in.	3½ pipe	5.00
14 in.	1½ pipe	1.10			

TWIN WRENCHES

Twin, 10 in. long, 75c. each.

COLD CHISEL PUNCH

	½ in.	⅝ in.
Retail price, each	$0.20	$0.25

FILES

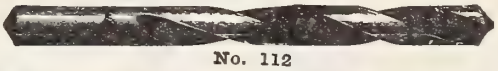
8-in.	Mill Bastard.....	.20
10-in.	Mill Bastard.....	.30
12-in.	Mill Bastard.....	.40
8-in.	Cross Cut.....	.40
10-in.	Cross Cut.....	.50

SCREW DRIVERS

No. 903	4-in. Blade.....	.40
No. 904	6-in. Blade.....	.45
No. 905	9-in. Blade.....	.50

8-in. **BUTTON PLIERS,** per pair 75c

SILVER & DEMING DRILLS



No. 112

Fitting Boynton & Plumer and Silver & Deming Blacksmith's Drill Presses, Nos. 1 and 2, with shanks ½-inch diameter.

Diam.	Length, in.	Pr. ea.	Diam.	Length, in.	Pr. ea.
1-8	6	$0.35	1-2	6	$0.76
3-16	6	.38	5-8	6	.89
1-4	6	.46	3-4	6	1.30
5-16	6	.53	7-8	6	1.60
3-8	6	.61	1	6	1.90
7-16	6	.69			

AUTOMOBILE JACKS

This Jack is made from best quality refined malleable iron, with high-grade Steel Screw, aluminum finish, and by single turn of the pawl raises or lowers. It is compact, neat and has sufficient strength to raise any automobile made.

No.	Capacity Pounds	Height Lowered Inches	Raises Inches	Wgt. Lbs.	Price Each
1...	2000	10	6	5	$1.50
2...	5000	10	6	8	3.00

CROWBARS

Crowbars with Pinch Point, from 20 to 25 lbs., per lb., **10c.**
Crowbars with Wedge Point, from 20 to 25 lbs., per lb., **10c.**
Digging Bar with Rammer combined, each, **$2.50.**
Digging Bar with Loop Handle, each, **$2.50.**

WEDGES

Strong steel wedges for splitting wood, have the right taper and will stick in the wood.
Weight from three to six pounds.
Price, per pound..... 10c.

HAMES

Virginia Cart Hames $2.25
Baltimore Strap Hames 2.25
No. 1 Hame, Light 1.25

TUG CHAINS

Cart Tug Chains, 18-10-1, per pair 50c

REGULAR IRON TRACE CHAINS

7-8-2, pair $0.70
7-10-2, pair ..... .75
7-12-2, pair ..... .90

SPREADER CHAINS

⅜ Close Link Straight Spreader Chain for two horses, with three hooks each, our special price $2.00

BUTT CHAINS

Retail

3 ft.—8-2, per pair 75c
3 ft.—10-2, per pair 80c

LOG CHAINS

Long Link Log or Ox Chain, 5/16 in., 12 or 14 ft., retail price, lb. 15c
Long Link Log or Ox Chain, ⅜ in., 12 or 14 ft., retail price, lb. 14c
Long Link Log or Ox Chain, ½ in., 12 or 14 ft., retail price, lb. 13c

BREAST CHAINS

Single Slack

27 in. 5/16 to ¼ Taper Slack $0.75
27 in. ⅜ to 5/16 Taper Slack 1.00
28 in. Double Slack, pair, heavy 1.00

COW CHAINS

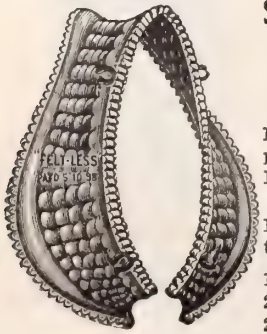
No. 3-0—Bulldog Cow Tie (Ohio pat.), each $0.30
4-0 ..... .35
No. 3-0—4½-ft. Halter, each ..... .20
6-ft. ..... .30
No. 0 —20-ft. Chain, each ..... .40
No. 00 —20-ft. Chain, each ..... .50
No. 000—20-ft. Chain, each ..... .55
No. 0 —30-ft. Chain, each ..... .60
No. 00 —30-ft. Chain, each ..... .70
No. 000—30-ft. Chain, each ..... .75

LAP LINKS

Open Side Lap Links, polished—
½x2½ $0.10
⅝x3 ..... .15
¾x3 ..... .20

CHAIN REPAIR LINKS

Chain Repair Links, ¼ or 10-2, doz. $0.20
9-32, or 10-1, doz. ..... .25
Assorted links, per box ..... .30



SWEAT PADS

Feltless

Pinked, Felt Edges, Composite Filling, Four Hooks.

Old Gold Drill; best on the market.

18 to 20 in. 50c
21 to 22 in. 55c
23 to 24 in. 60c

FOLDED DUCK BACK BANDS

With Hooks

No. 25—5 in., 42 in. long $0.35
No. 35—5 in., 42 in. long ..... .45
No. 50—5 in., 42 in. long (heavy) ..... .65
44 inch bands add ..... .05
48 inch bands add ..... .15

BACK BAND HOOKS

3½ in. $0.20
4 in. ..... .25
5 in. ..... .25

HAME STRINGS—Black

⅝x42 in. slit, each $0.15
¾x42 in. slit, each ..... .20

Rawhide

⅝x84 in. slit, each $0.25

HAME STRAPS

1 in. sewed $0.40
1⅛ in. riveted and sewed ..... .30
1¼ in. riveted and sewed ..... .35

LEATHER HALTERS

No. 40—1¼ in. Hrg. leather, each ... $2.00

No. 21—1¼ in. double stitched, each ... $2.25

No. 90 — ⅞ in. Colt Halter, each ... $1.75

COW HALTERS

Price, each $1.50
Calf Halters, each 1.00

DIETZ LANTERNS

No. 2 Dietz Blizzard, price $1.40

Junior Wagon Lantern, price $1.90

Eureka Driving Lantern, price $2.00

No. 0 Victor, price 90c

DANDY BRUSHES

Price

No. 985—Oval Brush, each $0.60
No. 940—Palmetto Dandy, each ..... .45
No. 950—Palmetto Dandy, each ..... .50
Leather Back Bristle Army Brush, each 1.00

SNOW SCRAPERS

Snow Scraper Blades made of high carbon steel. Will wear a long time. **Castings** of best malleable iron fastened to blades and handle. **Handles** of ash, tough, strong and smoothed. All metal parts given a coat of black paint.

18-inch Kohler Scraper $0.90
24-inch wide 1.25

CURRY COMBS

No. 167—All steel, closed back, 6 bars, our special price, each 25c

No. 083—Open Back Curry Comb, our special price, each 20c

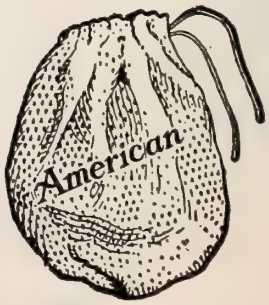
No. 167

All-Steel Closed Back

No. 800

No. 800—All steel, closed back, lacquered, extra size, oval face, curved knockers, braced shank, extending through handle and riveted, enameled handle, brass ferrule, 8 bars, our special price, each 30c

AMERICAN MANTLES



Price, per dozen $1.00

READY-LITE GENERATORS

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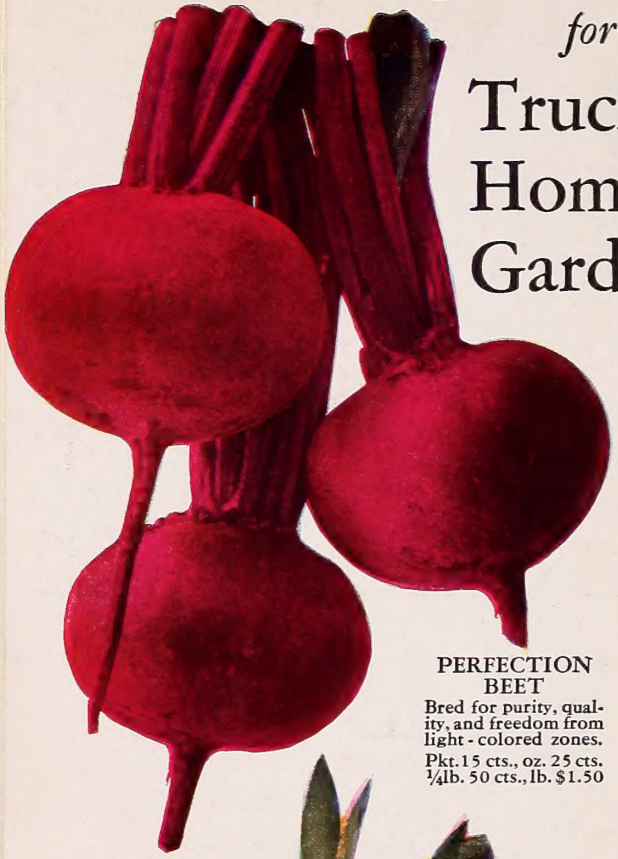

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